University of Toronto at Scarborough

Calendar

If somebody would give me about two dozen very old elm trees and about fifty acres of wooded ground and laws — not too near anywhere and not too far from anywhere — I think I could set up a College that would put all the big universities in the shade.

Stephen Leacock

2001/2002

1265 Military Trail, Scarborough, Ontario, Canada, M1C 1A4
GREETINGS FROM THE PRINCIPAL AND DEAN

It is with great pleasure that I welcome new and returning students to the 2001-2002 academic year. As we begin the new millennium, the challenges facing society and, as a result, universities and their students are significant and fast-reaching. The current pace of technological change, and of growth in knowledge is unprecedented. For those with the determination to face the challenges, these are exciting and rewarding times. Your university studies will increase your preparedness. The path is not easy but the rewards are great.

As a student at the University of Toronto at Scarborough, you are part of a community dedicated to advancing knowledge in a wide array of fields, dedicated to disseminating that knowledge and its applications to students, other researchers and society, and dedicated to the enhancement and harnessing of technology.

More specifically, you are part of a community that has pioneered the development and use of information technology. Scarborough was one of the first parts of the University to develop a Web site and has been in the forefront of using the Web, and more widely the Internet, for the enhancement of instruction from the simple posting of assignments to interactive discussion. We currently have three of our large lecture theatres equipped as "smart classrooms" and two portable "smart pods" that can move from room to room. "Smart classrooms" are equipped with state-of-the-art computer facilities such as Internet connectivity, CD-ROM presentation ability, computer output (cotton) projection and digital document cameras which project the image of any object onto the overhead screen (objects as diverse as written documents, computer components and ancient artifacts).

Professors at U of T at Scarborough are active researchers and scholars and have won many prestigious awards for their contributions to the arts, humanities, sciences and business. We strive to ensure that the knowledge they impart to you is at the leading edge of their disciplines.

University of Toronto at Scarborough has benefited from its divisional (instead of departmental) structure and from the fact that it is a medium-sized institution. Both of these features have facilitated the development of significant interdisciplinary programmes such as Biological Sciences (an integration of Zoology, Botany, Microbiology and Biochemistry), Neuroscience (Psychology and Biology) and Environmental Science (Geology, Physical Geography, Biology, and Atmospheric Physics/Climatology). In addition, Drama, Music, Fine Art History and Fine Art Studio have created integrated programmes in Visual and Performing Arts and offer a co-op programme in Arts Management.

These are just some of the ways in which the University of Toronto at Scarborough is able to contribute to your preparedness to face a challenging, exciting and rewarding new millennium.

I offer you my very best wishes for a rewarding year of study in our academically rich environment.

Professor Paul Thompson
Principal and Dean

University of Toronto at Scarborough

University of Toronto at Scarborough: Past and Present

Founded in 1964 as a constituent college of the University of Toronto's Faculty of Arts and Science, the University of Toronto at Scarborough is located on a park-like campus of 300 acres at the eastern edge of the City of Toronto. From a modest start offering evening courses in a local high school, it has matured into a thriving institution where over 200 faculty teach more than 700 courses to 5000 students.

The first full-time students enrolled in 1965 in temporary quarters on the St. George campus, moving to the current site when the first buildings opened in January 1966. Designed by Toronto architect John Andrews, they won immediate international attention for their striking architecture.

1973 saw the opening of the Bladen Building, housing classrooms, office space, and athletic facilities, and the Student Village, a complex of townhouse residences. In 1983 the original Village was expanded and in 1990 the West Village opened, creating a second residential area on the campus with some wheelchair accessible houses. When the fourth phase of student residence construction, an apartment-style building designed to enhance all aspects of student development, is completed in 2003, 739 students will be housed in campus facilities.

The Vincent W. Bladen Library, built in 1982 and named in memory of a former member of the Economics faculty, houses more than 300,000 books and periodicals, thousands of maps, and a media centre with recordings and fine art slides. A leader in the use of electronic resources, Bladen Library incorporates a Department of Teaching and Learning Services, a Writing Centre, and the Centre for Instructional Technology Development. A new Academic Resource Centre ("The ARC") will bring together many of the technical and information services of UTSC, transforming the Library into a high-tech state-of-the-art information centre and adding a 500 seat lecture theatre, "smart" classrooms, and study space. A Soil Erosion Research Laboratory opened in 1985, the N/Smoumoto Child Care Centre in 1990, and the Legato Lee Brown Studio Theatre in 1993.

In 1972 University of Toronto at Scarborough became a separate arts and science division of the University of Toronto, gaining a high degree of independence in curriculum development. It was the first college in the University to adopt a credit system. In 2000 UTSC was granted the right to offer the arts programs in the University leading to the Bachelor of Business Administration degree (B.B.A.). It also offers the University's only formal co-operative programs in Arts & Science & Management, combining the highly valued University of Toronto degree with paid work-term placements. The Early Teacher Projects in the Division of Physical Sciences and Humanities (French), in cooperation with the Ontario Institute for Studies in Education/University of Toronto, guarantee admission to OIS/EUT for successful graduates.

UTSC faculty, many internationally recognized for their research and scholarship, also teach courses and train graduate students on both the Scarborough and St. George campuses. The well appointed research laboratories, high level of technical services, relatively small size and the diversity of the faculty foster an ideal environment for intellectual exchange and development.

UTSC students have full and up-to-date resources available on campus, they also have access to the resources of the University as a whole. Regular events at Scarborough include concerts, drama productions, and a literary reading series. The Student Visitor program and the prestigious Watanabe Lecture have brought such distinguished speakers as Nobel Prize winner and former Prime Minister Lester Pearson, architect Raymond Moriyama, and philosopher and theologian Hans Kung to campus. Intramural athletics and recreation, a wide variety of student clubs and cultural groups, and a campus newspaper and radio station provide some of many opportunities for full involvement in student life.
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Important Notices

1 Changes in Subject Plans (Programs of Study)
The programs of study that our Calendar lists and describes are available for the year(s) to which the Calendar applies. They may not necessarily be available in later years. If the University or the Faculty must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction will be given. The University will not, however, be liable for any loss, damages, or other expenses that such changes might cause.

For each program of study offered by the University through the Faculty, the courses necessary to complete the minimum requirements of the program will be made available annually. The University must, however, reserve the right to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, requirements for promotion and timetables without prior notice.

2 Regulations and Policies
The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are displayed here. Applicable University policies are either fully displayed here or listed here. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the Calendar, as amended from time to time.

3 Enrolment Limitations
The University makes every reasonable effort to plan and control enrollment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrollment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrollment in the programs, courses, or sections listed in the Calendar, and to withdraw courses or sections for which enrollment or resources are insufficient. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

4 Copyright in Instructional Settings
If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or other similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

5 Person I.D. (Student Number)
Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Academic Records, strictly controls access to person I.D. numbers. The University assures and expects that students will protect the confidentiality of their Person I.D.‘s.

6 Fees and Other Charges
The University reserves the right to alter the fees and other charges described in the Calendar. NOTE: Specific tuition and fees information can be found at www.ontario.ca.

7 Separate Calendars are published by the St. George campus of the Faculty of Arts and Science and by Renfrew College. Students are reminded that University of Toronto at Scarborough is a separate faculty of the University and that rules covering students registered at University of Toronto at Scarborough may differ from those in the Faculty of Arts and Science.

8 It is the responsibility of students to see that their academic programs meet University of Toronto at Scarborough’s regulations on all aspects.

9 Refer to the UTSC website for most up-to-date copy of this Calendar.

10 ACADEMIC OFFENCES ARE A SERIOUS MATTER. See page 243.

11 University of Toronto at Scarborough has a fire safety plan. Copies are available from Physical Plant Services B444 (47474).

12 University of Toronto at Scarborough has a No-Smoking Policy.

13 University of Toronto at Scarborough "Snowline" 416-287-1026.
Academic Calendar / Summer Session 2001

March 15  Last day for new students to apply for admission to the University for the
Summer Session for courses beginning in May.
April 9  Summer Session registration begins through ROGI.
April 13  Good Friday  = University closed.
May 11  Deadline to register in May to June and May to August courses
(Section "P" and "Y")
May 14  Classes begin in May to June and May to August courses (Section "P" and "Y").
May 15  Last day for new students to apply for admission to the University for the
Summer Session for courses beginning in July.
May 18  University closed.
May 22  Last day to add May to June and May to August courses (Section "P" and "Y").
May 21  Victoria Day  = University closed.
June 10  Last day to cancel May to June courses (Section "P") from academic record and
G.P.A.
June 22  Last day of classes in May to June courses (Section "P"). Last day for
submission of term assignments in these courses.

June 25-29  Reading Week  = "W" & "Y" courses. Final Exams in "P" courses.
June 30  Deadline to register in July to August courses (Section "E").
July 2  Canada Day Holiday  = University closed.
July 3  Classes begin in July to August courses (Section "S").
July 9  Last day to add July to August courses (Section "S").
July 13  Last day to cancel July to August courses (Section "S") from academic record
and G.P.A.
July 30  Last day to cancel July to August courses (Section "S") from academic record
and G.P.A.
July 31  Last day to confirm intention to graduate at the Fall Convocation.
August 6  Civic Holiday  = University closed.
August 10  Last day of classes in July to August and July to August courses
(Section "S" and "W"). Last day for submission of term assignments,
final examinations in "S" and "W" courses.
August 15-17  Reading Week  = No classes held.
August 18-20  Final examinations from April/May 2001.

November 1  Fall Convocation.

* For details, see the appropriate Calendar.
** All courses are recorded whether course work is completed or not and calculated into
the G.P.A.

Academic Calendar / Fall & Winter Sessions 2001/2002*

2001 - FALL SESSION

April 1  Last day for new students to apply for admission to the University for
full-time studies beginning in September. Overseas students must apply
by March 1.
June 1  Last day for new students to apply for admission to the University for
part-time studies beginning in September.
July 4  Fall/Winter Session registration using ROGI.
September 3  Labor Day  = University closed.
September 10  Classes begin in Fall Session courses (Section "P" & Fall/Winter Session
courses (Section "Y").
September 23  Last day to add Fall courses (Section "P") & Fall/Winter Session courses
(Section "Y").
October 8  Thanksgiving Day  = University closed.
November 4  Last day to cancel Fall Session courses (Section "P") from academic
record and G.P.A.
November 13  December Examination Schedule published.
December 3  Last day of classes in the Fall Session. Last day for submission of term
assignments in Fall Session courses (Section "P").
December 4-7  Study Break (UTSC). U of T Scarborough students who are registered in St.
George courses will continue to have classes through this period.
December 10-21  Term test and final examination period. Deferred examinations from June
December 24-January 4  December break  = University closed.

2002 - WINTER SESSION

January 7  Classes resume in Fall/Winter Session courses (Section "Y").
January 7  Classes begin in Winter Session courses (Section "S").
January 30  Last day to add Winter Session courses (Section "S").
February 15  Last day to confirm intention to graduate at the Spring Convocation.
February 17  Last day to cancel Fall/Winter Session courses (Section "Y") from academic record and G.P.A.
February 18-22  Reading Week  = No classes held.
March 10  Last day to cancel Winter Session courses (Section "S") from academic
record and G.P.A.
March 12  Annual Examination Schedule published.
March 29  Good Friday  = University closed.
April 5  Last day of classes; no tests or examinations (other than deferred
examinations) may be held until the beginning of the examination period.
Last day for submission of term assignments for Fall/Winter
(Section "Y") and Winter Session courses (Section "S").
April 8-12  Study Break (UTSC). U of T Scarborough students who are registered in St. George courses
will continue to have classes through this period.
April 15-May 2  Final examination period.
April 30-May 3  Deferred examinations from December 2001.
June 8  University Spring Convocations are likely to begin.

* For dates on other campuses, see the appropriate Calendar.
** After this date a grade is recorded whether course work is completed or not and calculated into
the G.P.A.
Officers of the University of Toronto at Scarborough 2001/2002

Principal and Dean
R.P. Thompson, M.A., Ph.D.

Associate Dean
J.R. McDonald, B.A., Ph.D.

Associate Principal & Chief Administrative Officer
K. McLean, B.A., M.B.A.

Associate Principal, Student Affairs
T. Nivens, B.Sc., M.Ed.

Associate Principal, Campus Development
E. Ralph, B.A., M. Phil., Ph.D.

Chair, Division of Humanities
E.A. Cooper, B.A., A.M., Ph.D.

Chair, Division of Life Sciences and Associate Principals, Research
J. Faxon, B.A., M.Sc., Ph.D.

Chair, Division of Management
S. Barza, B.A., M.P.P., Ph.D.

Chair, Division of Physical Sciences
J. Filatopouo, B.A., Ph.D.

Chair, Division of Social Sciences
R. B. Goff, B.A., M.A., Ph.D.

Chief Enrolment & Registrar Affairs
B. A. Dip.

Officers of the University of Toronto 2001/2002

Chancellor
The Honourable H.N.R. Jackman, C.M., K.S.J., B.A., LL.B., LL.D.

Chair, Governing Council
W.M. Cecil-Cockwell, B.A.

President and Chief Executive Officer
R. Birrnam, B.Sc., Ph.D.

Vice-President and Provost
A. Sada, B.Sc., M.A.Sc., Ph.D.

Vice-President, Administration
and Human Resources
M.G. Filatopouo, B.A., M.A., Ph.D.

Vice-President and Chief Development Officer

Vice-President, Finance and International Relations
H. Marcus-Stadnicki, B.A., B.S.W., M.S.W., Ph.D.

Dean, Computer Science
P. Corrigan, B.A., B.S.W.

Dean, Faculty of Arts
D. Gower, B.A., M.A., Ph.D.

Dean, Faculty of Business Administration
D. Gower, B.A., M.A., Ph.D.

Dean, Faculty of Education
D. Gower, B.A., M.A., Ph.D.

Dean, Faculty of Information Studies
D. Gower, B.A., M.A., Ph.D.

Dean, Faculty of Social Work
D. Gower, B.A., M.A., Ph.D.

Dean, School of Continuing Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Graduate Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Health Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Library and Information Science
D. Gower, B.A., M.A., Ph.D.

Dean, School of Music
D. Gower, B.A., M.A., Ph.D.

Dean, School of Nursing
D. Gower, B.A., M.A., Ph.D.

Dean, School of Psychology
D. Gower, B.A., M.A., Ph.D.

Dean, School of Social Work
D. Gower, B.A., M.A., Ph.D.

Dean, School of Urban and Social Planning
D. Gower, B.A., M.A., Ph.D.

Dean, School of Women's Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Women's Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Women's Studies
D. Gower, B.A., M.A., Ph.D.

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Dean, School of Women's Studies
D. Gower, B.A., M.A., Ph.D.

Dean, School of Women's Studies
D. Gower, B.A., M.A., Ph.D.
Located on the campus' grounds, Wheenemash is a non-profit centre which has garnered praise for its high standard of excellence in programming, staff and its innovative design layout. The centre is licensed for 54 children of students, staff, faculty and neighbourhood families. The centre also has a purchase-of-service agreement with the municipal government to assist with fees for low-income households. As there is a very long wait for these subsidies, it is strongly advised to apply well in advance of the time childcare is needed. A bursary for up to $500 is also available.

Housed in a state of the art building which officially opened October 19, 1990, this non-profit centre is managed by a parent advisory board of directors. The Centre's philosophy is that a warm, secure and loving environment be provided so that each child's self-esteem, independence and self-control, will encourage cooperation, negotiation and empathy for others.

The sound of the chickadee "Wheenemash", also means "My little brother or sister" in the Ojibway language. The fauna reminds us all to take good care of our little ones.

For more information about the centre, or to arrange for a visit, please contact the Director, Ma. Kathleen McIlroy at 416-287-7264.

Physical Education – Recreation Centre Hours: Monday – Friday: 6:45 a.m. – 9:30 p.m. Saturday – Sunday: 8:00 a.m. – 4:00 p.m. hanged diets during open periods. Contact: The Athletics & Recreation office. Main Office: R247 General Information: 416-287-7090 E-mail: phys@scar.utoronto.ca Website: http://www.scac.utoronto.ca/phys-ed

The "mission" for the Department of Physical Education and Athletics is to "Educate and challenging through participation in physical activity.

The focus of the Department is to encourage participation in a broad spectrum of sports and physical activities. We offer various combinations and levels of intramural sports, state-of-the-art fitness equipment, instructional play, and special events to promote skill development, leadership, social interaction and enjoyment for an active, healthy lifestyle.

Facilities:
- Co-ed fitness/weight training facility, "THE KIE", The Pilkington Gymnasium, a fourplex for basketball, swimming, floor hockey, indoor soccer, etc., aerobics/class studio for instructional classes, eight air-conditioned North American squash courts, golf "pre-done" cage to improve your swing, billiard lounge with their regulation six-foot tables, two multi-purpose playing fields in the valley, eleven outdoor tennis courts in the valley, two outdoor beach volleyball courts, basket/badminton courts, including men's and women's saunas, athletic service counter, offering program and membership information as well as playing equipment and various supplies.

University Police Services Hours: 24 hours Information: 416-287-7215 E-mail: police@scar.utoronto.ca

The University Police have a sworn police officers who are on duty 24 hours, 365 days a year to serve the University community.

The UTSC Police is the initial response agency for all emergencies and crises occurring on campus and should be notified immediately of any situation requiring urgent assistance that jeopardizes the safety of any community member, or that threatens to seriously disrupt the operations of the University. UTSC Police can be reached at 416-287-7333 in an emergency.

UTSC Police should be called to investigate or informed of ALL matters involving threats to personal safety, violations of federal, provincial or municipal laws or University policies. Examples of when to call the University Police would include:
- Attempts to injure others or self,
- Threats of carrying or possessing weapons,
- Alcohol related occurrences,
- Theft,
- Assaults,
- Noise complaints,
- Damage to property,
- Theft of property,
- Possession of drugs or weapons
- Any other situation where lawlessness or causes concern.

The UTSC Police are also available for discussions and coordination for incidents relating to threats to personal safety or other criminal and non-criminal matters at UTSC.

Student Residences Information: 416-287-7215

The University of Toronto at Scarborough residence system offers you complete home away from home. Our mission is to provide residence students with a "living and learning" environment that supports the academic mission of the university and offers students a variety of opportunities to enhance their university experience both inside and outside the classroom. Our Residence Life Program is designed to assist students with the transition to university and to support their success throughout their university experience. We strive to focus on learning community committed to a high standard of mutual respect and understanding towards its members in spite of any difference in opinion, culture, religion, disability or sexual orientation. Leadership opportunities are available on many levels. Workshops, the academic mentoring program, the residence student government and our student mentoring program (LINKS) are only a few examples of support and opportunities available to all residence students.

Located in two attractively landscaped villages, our fully furnished townhouses with well-equipped kitchens, have located facilities from the academic buildings and steps away from the centre of residence life, our furnished common areas. There are 114 self-contained townhouses, accommodating 534 students; with four to six students in each house. Single and shared rooms accommodations are available. Houses are assigned as either all female or all male for new students. There are four laundry rooms located in the village. Five houses are specially designated to meet the needs of students with a disability.

The Don, who are senior students, serve as a community support network that strives to make the residence environment enjoyable, relaxing, and conducive to learning. Residence Don's are all full-time first-year students who are offered admission by July 1, and who respond to all demands and meet all deposit requirements. Part-time students and those who receive late offers are advised to contact the Housing Office for further counselling. Accommodation is available for winter and summer. We encourage you to come and visit us during the summer to tour the village and see the Don's house. For more information, contact: Student Housing and Residence Life, University of Toronto at Scarborough, 1305 Military Trail, Scarborough, ON M1C 1A4 Telephone: 416-287-7215 Fax: 416-287-7050 E-mail: residences-office@scar.utoronto.ca Web: http://www.scar.utoronto.ca/don/
Students are encouraged to discuss their needs as early as possible with the Coordinator of AccessAbility Services. Students must present appropriate and up-to-date documentation of their disability when it is requested.

Responsibility of AccessAbility Services
Staff in AccessAbility Services are available to provide services directly to students who have disabilities and to support and advise staff of the University in providing appropriate accommodation. AccessAbility Services will work in concert with the University’s disability services to ensure that students are provided with the necessary accommodations and support.

Services Available at UTSC
- arrangements for alternate test/exams
- note takers
- provision of assistive devices and adaptive equipment and assessment of these needs
- adaptive materials (large print/lumped text)
- alternative communication (i.e. sign language interpreter)
- accessible test and course locations
- personal and career counseling relating to the individual’s disability
- access to a registered psychologist for psycho-educational assessment and refers to support services as required. The Co-ordinator is available at (VoiceTTY): 416-277-7555; Voice: 416-277-7570; dept. S323A, email: ability@utoronto.ca. We also have a page on the World Wide Web: www.acs.utoronto.ca/ability

International Student Centre
At the International Student Centre (ISC) all students can take part in social and cultural programs with an international focus, or just take a break from the pressures of studies. ISC’s work or study abroad resource centre provides information and counselling on overseas programs. ISC also offers special services to international students: pre-arrival information (sent with the admission offer), registration services, orientation sessions, English language program, newsletter and advice on non-academic concerns. Contact: ISC, 33 St. George Street, Toronto, Ontario, M5S 2E3, 416-978-2564

University Ombudsperson
As part of the University’s commitment to ensure that the rights of all individual members are protected, the University Ombudsperson investigates complaints from any member of the University not handled through regular University channels. The Ombudsperson offers advice and assistance and can recommend changes in academic or administrative procedures where this seems justified. In handling a complaint, the Ombudsperson has access to all relevant files and information and to all appropriate University officials. The Ombudsperson handles all matters in strict confidence, unless the individual involved agrees otherwise. The Ombudsperson is independent of all administrative structures of the University and is accountable only to Governing Council.

Contact information:
Office of the University Ombudsperson
The Fields Institute Building
222 College Street, Suite 161
Toronto, Ontario M5T 3J1
Telephone: 416-978-4874
Fax: 416-978-3459
E-mail: ombuds.person@utoronto.ca
Website: www.utoronto.ca/ombuds
Degrees
University of Toronto at Scarborough students may earn a Bachelor of Arts, a Bachelor of Science, or a Bachelor of Business Administration degree. After completing the appropriate requirements listed below, students may elect to receive a B.A. or a B.Sc. degree after having completed the requirements for a three-year degree or an Honours (four-year) degree. The B.B.A. may only be completed as part of a four-year degree.
Students in their graduating year who intend to take part in the next Convocation must notify the Registrar’s Office of their intention either through ROSI or on a confirmation of graduation form by February 15 for graduation at the Spring Convocation or by July 31 for graduation at the Fall Convocation.
Degrees are conferred at university convocations, held twice annually the Spring Convocation held in June and the Fall Convocation held in November. Students who have confirmed their intentions to graduate will be mailed completion information about the time and arrangements in March for the June Convocation and in October for the Fall Convocation.

Degree Requirements
In the context of the degree requirements, the word "course" refers to one full-course or two half-courses.

Students who first registered at Scarborough before the 1969 Summer Session may, if they wish, complete the requirements for an Honours degree that were outlined in the 1962-63 Calendar. Students who first registered at the College before the 1960 Summer Session may, if they wish, complete the degree requirements outlined in the 1979-80 Calendar.

Three-Year Degree
To qualify for a three-year degree, students must:
1. pass at least fifteen courses.
2. complete the requirements of a Major Program and Minor Program.
Combinations of Programs used to meet this requirement must include at least eight different courses.
3. earn a cumulative grade point average of at least 1.60.

Honours Degree
To qualify for a four-year degree, students must:
1. pass at least twenty courses.
2. complete: (a) a Specialist Program, or (b) two Major Programs, or (c) three Minor Programs, or (d) two Minor Programs and a Major Program. Combinations of programs used to meet this requirement must include at least twelve different courses.
3. earn a cumulative grade point average of at least 1.60.

Bachelor of Business Administration Degree
1. pass at least twenty courses.
2. complete either (a) the Specialist Program in Management, or (b) the Specialist Program in Management & Language (French) or (c) the Specialist Co-operative Program in Economic Policy Management and Data Analysis.
3. earn a cumulative grade point average of at least 1.60.

B.A., B.Sc. and B.B.A. Degrees
The type of degree students receive is determined by the Program completed. (See the list of Programs on page 18 for the type of degree towards which the Program leads.) Students must satisfy their own progress to degree completion.

Where students use a combination of three Programs to satisfy the requirements of an Honours degree, in order to receive a B.Sc., two of the three must be in the sciences.

Where students use two Major Programs to satisfy the requirements of an Honours degree, in order to receive a B.Sc., one must be in the sciences. Where students use two Minor Programs to satisfy the requirements of a three-year degree, in order to receive a B.Sc., both must be in the sciences.

For students completing the requirements outlined in the 1982-83 or the 1979-80 Calendar, the type of degree is determined by the number of Science credits completed.

Graduation with High Distinction and with Distinction
University of Toronto at Scarborough students who have completed at least ten full courses and are registered at University of Toronto at Scarborough or at the University of Toronto Faculty of Arts and Sciences will graduate with high distinction if their cumulative grade point average is 3.5 or better and will graduate with distinction if their cumulative grade point average is between 3.30 and 3.49. Students who have completed fewer than ten University of Toronto at Scarborough or Faculty of Arts & Science courses who have a cumulative grade point average of 3.20 or better will be considered on an individual basis.

Transfer Students
Students transferring to the University of Toronto at Scarborough will be required to complete at least half of their credits and half of their Program requirements at University of Toronto at Scarborough. Students transferring from other divisions of the University of Toronto are exempt from this requirement.

Upgrading Three-Year Degrees
Students who have graduated with a three-year degree may still choose to complete the requirements of the Honours degree. A second degree will not be conferred but completion of the Honours degree requirements will be noted on the student’s transcript. Students who upgrade a three-year degree to an Honours degree may exchange the diploma for an Honours diploma of the same kind, e.g. a three-year B.A. may only be replaced by an Honours B.A. diploma.

Students who have received a three-year degree and are in the final year of the Honours degree should notify the Registrar’s Office through ROSI or by means of a confirmation of graduation form by February 15 if they are completing the requirements in the Fall/Winter Sessions and by July 31 if they are completing the requirements in the Summer Sessions.

"Second Degree" Requirements
Students beginning a second degree are normally exempted from first year of the degree requirements by receiving granted five (5.0) credits, regardless of the number of previous degrees.

Students who hold a B.A., B.B.A. or B.Sc. from the University of Toronto will be considered for admission to a second degree Program of a different type (i.e. students with a B.A. degree may only complete a B.B.A. or B.Sc. degree). Application for admission to a second degree Program is made through the Assistant Registrar Admissions.

Special students
"Special students" are students registered in degree courses at the University of Toronto at Scarborough: (a) who are not proceeding towards a University of Toronto degree, or (b) who have been admitted on an interim basis and who must meet certain conditions before admission as regular degree students. Except for regulations concerning degree requirements and regulations where special students are specifically exempted; all regulations apply equally to special students and degree students.

Programs of Study (Subject POSs)
Students must select and register in a Program or Programs following the season in which they receive their fourth credit. Note that some Programs have limited enrollment. See the Program descriptions for admission requirements. A list of Programs may be found on page 18. Only programs offered by the University of Toronto at Scarborough may be used to meet program requirements.

Specialist Programs
1. Specialist Programs are designed to provide depth and intensity of study within a limited area defined as a discipline, a group of disciplines, or a particular theme or area of study. A Specialist Program may be taken only as part of an Honours or a Bachelor of Business Administration degree and will consist of at least nine courses.

Major Programs
2. Major Programs are designed to provide concentration in an area of study defined as a discipline, a group of disciplines or a particular theme or area of study. A Major Program may be taken as part of either a three-year or an Honours degree and will consist of six to eight courses.

Minor Programs
3. Minor Programs are designed to provide study in a specific area for students desiring wider-ranging but coherent Programs of study in different areas of the curriculum. A Minor Program may be taken as part of either a three-year or an Honours degree and will consist of four full courses, including at least one C or U course.

Approved Individual Programs
4. Students may propose individual Programs of study, other than those described in this Calendar. Such proposals will be considered favorably only from students with...
Co-operative Programs

Co-operative programs are work-study programs which are designed to integrate related, practical experience with regular University studies. All Co-operative Programs are either Specialized or Major Programs and may be taken only as part of a four-year degree. Major Co-operative Programs must be combined with another Major Program. Some Co-operative Programs may take up to five years to complete because of the time required for the work placements.

Entry to the program requires an average of 80% in Grade 11 Math and English, and 85% in Math and English in Grade 12. Students must also have a minimum score of 75% on the Math Placement Test. The program is open to both domestic and international students.

Requisitions Concerning Programs of Study

Program Transfers

Students who wish to transfer from one Program to another at the end of the first year must state in writing the reasons for the transfer to the Registrar. The Transfer Office will then discuss the request with the new program's Academic Advisor. The transfer will be approved if it is in the best interest of both the student and the University. Students who transfer to another program will be required to complete any additional courses that are necessary to meet the requirements of the new program.

Certification of completion of Programs

Completion of Programs is certified when the student has completed the program requirements. Students who have completed all the required courses and have met the program's academic requirements will be awarded the degree. The degree will be awarded upon the successful completion of all program requirements, including any additional courses that may be required.

University of Toronto at Scarborough

The University of Toronto at Scarborough offers a variety of programs, including Bachelor of Arts, Bachelor of Science, and Bachelor of Commerce degrees. The university also offers a number of graduate programs, including Master of Business Administration, Master of Public Policy, and Master of Social Work programs. The university has a strong reputation for research and innovation, and offers students access to state-of-the-art facilities and resources.

Supervision

Supervision is an important part of the program, and students will be assigned a supervisor who will provide guidance and support. Students will also have access to a range of resources, including library facilities, computer labs, and learning centers.

University of Toronto at Scarborough Repository of Student Information

The University of Toronto at Scarborough Repository of Student Information is a comprehensive database that contains information about all students enrolled at the university. The database includes information about students' academic records, course registration, and financial information. The repository is used by faculty, staff, and students to access and manage information about students.

Supervision of the Repository

The University of Toronto at Scarborough is committed to maintaining the security and confidentiality of the information stored in the Repository. The University has established policies and procedures to ensure that access to the information is limited to authorized personnel and that all transactions are recorded.

Supervision of the Repository by the University of Toronto at Scarborough

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Anthropology
(B.A./B.Sc.)

Faculty List
T.P.S. McPeek, B.A. (Guelph), M.A.,
Ph.D. (Harvard), FRSC, Professor Emeritus
R.W. Shirley, M.A. (St. Andrews), Ph.D.
(Columbia), Professor Emeritus
J. Bodo, B.A. (McGill), M.A. (Calgary),
Ph.D. (UBC), Professor
F.D. Burton, B.Sc., M.A. (NYU), Ph.D.
(CUNY), Professor
M. Lambek, B.A. (McGill), M.A., Ph.D.
(Michigan), Professor
G.L. Gilmore, B.A. (McGill), Ph.D. (CUNY),
Associate Professor
M. Latta, B.A. (Kansas), M.A., Ph.D.
(Toronto), Associate Professor
L. Swick, B.A., M.A. (Manitoba), Ph.D.
(Toronto), Associate Professor
S. Bamford, B.A. (Toronto), M.A.
(McMaster), M.A., Ph.D. (Virginia),
Assistant Professor

Certification Program/Supervisor of Students: T. Burton (A16-387-744)

Anthropology is the study of humankind, dealing with the origin, development and nature of humans and their culture. As such it concerns with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with the physical and natural sciences. Anthropology examines society today and in the past, both complex civilizations and relatively small-scale non-literate societies. From this vantage point Anthropology attempts to arrive at an understanding of the common factors underlying human existence and to isolate the causes that have led and continue to lead to social and cultural changes and to differences between peoples and cultures.

Because of the vastness of its subject matter, Anthropology is traditionally divided into five sub-fields: Social-Cultural Anthropology, Archaeology, Physical Anthropology and Anthropological Linguistics. At the present time, University of Toronto in Scarborough offers courses in the first three areas. Students interested in requiring about appropriate course sequences in one of the sub-fields are invited to consult with one of the faculty in the appropriate sub-field and with the Supervisor of Students. Students may elect either a B.A. or a B.Sc. degree in Anthropology. Most courses in Archaeology and Physical Anthropology, excluding Introduction to Anthropology, carry science credit. Consult the Discipline Representative for clarification.

The following courses in Anthropology may be used to fulfill requirements for the B.Sc. degree: ANTH501, ANTH404, ANTH111, ANTH113, ANTH202, ANTH225, ANTH354, ANTH12, ANTH126, ANTH25, ANTH26, ANTH35, ANTH45, ANTH53, ANTH56, ANTH65, ANTH75, ANTH85, ANTH95. The following courses may also be used to fulfill the B.Sc. requirements for students researching to appropriate scientific areas of Anthropology: ANTH503, ANTH504, ANTH515, ANTH521 and ANTH522.

Specialist Program in Anthropology

The Specialist Program in Anthropology is intended to provide the professionally oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure akin to a wide range of courses and programs. All students are required to consult with the Supervisor concerning the selection of a course sequence appropriate to their interests and objectives.

The Program requires completion of ten full-course equivalents in Anthropology. No more than 12 F.C.E.'s may be completed in Anthropology in the four-year degree (20 F.C.E.). The courses within the Program are to be selected as follows:

1. ANTH 100Y Introduction to Anthropology
2. At least two full-course equivalents from among the following:
   a) ANTH 155Y Biological Anthropology
   b) ANTH 202Y Primates Behaviour
   c) ANTH 303Y Social and Cultural Anthropology
   d) ANTH 311Y Introduction to World Societies
   e) ANTH 351Y First Nations of North America in Anthropological Perspectives
3. Five full-course equivalents at the B-Level or above
4. Two courses at the C- or D-Level
5. At least 2 F.C.E.'s in disciplines other than Anthropology must be agreed upon in consultation with the Supervisor of Students.
Students are encouraged to take at least one course in field methods, such as ANT02E and C30. In exceptional circumstances supervised research and reading courses are available at the C- (ANT03E, ANT04E) and B-levels (ANT05E, ANT06E). Be sure to read the descriptions for these courses below, as restrictions apply.

The B.Sc. Specialist requires at least seven full-course equivalents to be science credit. (See the list above for Anthropology science credits).

**SPECIALIST PROGRAM IN MEDICAL ANTHROPOLOGY**

The Specialist Program in Medical Anthropology integrates the fields of socio-cultural anthropology, physical anthropology, and archaeology by taking health and disease as a focus for anthropological studies. This unique undergraduate program is designed to provide knowledge and skills in an area of growing importance for a wide range of health-related studies and work, and it is also intended to provide students with the necessary preparation to pursue studies in masters and doctoral Programs in the area of Medical Anthropology. The Program requires the completion of twelve and one-half full-course equivalents to be selected as follows:

1. Four full-course equivalents required for all students as follows:
   - **ANT01E** Introduction to Anthropology
   - **ANT02Y** Biological Anthropology
   - **ANT03Y** Social and Cultural Anthropology
   - **ANT04H** Medical Anthropology: Illness and Healing in Cultural Perspective
   - **ANT05H** Medical Anthropology 2: Biological and Demographic Perspectives

2. At least one-half full-course equivalent from the following:
   - **ANT04E** Fieldwork in Social and Cultural Anthropology
   - **ANT05H** Medical Anthropology
   - **ANT06H** A course in statistics may be substituted for **ANT05H**

3. Six full-course equivalents from the following:
   - **ANT00Y** The Ecological Perspective in Anthropology
   - **ANT01H** The Anthropology of the Body
   - **ANT02Y** Biological Study of Religion
   - **ANT03H** Anthropological Perspective on Development
   - **ANT04Y** The Anthropology of Women and Gender
   - **ANT05Y** Anthropological Demography
   - **ANT06H** Human Adaptability
   - **ANT07H** Human Osteology
   - **ANT08H** Death and Burial
   - **ANT09H** The Anthropology of Food: Human Needs
   - **ANT10H** The Anthropology of Food: Controlling Passions
   - **ANT11H** International Development: Studies in Development and Environment
   - **ANT12H** International Health: Policy Analysis
   - **ANT13H** The Ethics of Development
   - **ANT14H** Human Biology
   - **ANT15H** The Art of Thinking

**MAJOR PROGRAM IN ANTHROPOLOGY**

The Major Program in Anthropology provides a course structure for students majoring or specializing in other disciplines who want some directed exposure to anthropological thought. The Program requires completion of four full-course equivalents including:

1. **ANT01Y** Introduction to Anthropology
2. At least one full-course from among the following:
   - **ANT02Y** Biological Anthropology
   - **ANT03Y** Social and Cultural Anthropology
   - **ANT04Y** Introductory to World Prehistory
   - **ANT05Y** First Nations of North America in Archæological Perspective
3. Two additional full-course equivalents in Anthropology, at least one of which must be at the C- or D-level.

This leads to a B.A. Students are required to consult with the Supervisor regarding course selections, identification of potential interdisciplinary streams (social-cultural, physical, archaeological), and course requirements.

**ANT01Y** Introduction to Anthropology

An introduction to the various fields of anthropology.

The first term deals with Physical Anthropology and Archaeology, concentrating on the biological basis and the evidence for the origins and growth of culture. The second term covers the nature of language and the comparative aspects of cultural Anthropology, through a study of social groups as well as economic, political and religious systems in both non-industrial and industrial societies.

Two hours of lecture per week and one hour tutorial per week.
Exclusion: AN00H, M. Landa, Body

**ANT01Y** The Ecological Perspective in Anthropology

An examination of the relationship between human populations and cultural systems with their environments. This course examines such inter-relationship in terms of differences in technology, subsistence practices, social organizations and ideology. Ethnopsychology will be placed on the perspective which anthrologists vary in human cultural behavior to the solution of problems of adaptation and evolutionary change. But other positions will also be considered such as optimal foraging strategies. Two hours of lecture per week.
Prerequisites: ANT01Y or permission of the instructor
S. Bamford

**ANT03Y** African Cultures and Societies I: Survey

A study of contemporary and traditional African peoples, their cultural backgrounds and historical interactions. Lectures and readings will provide an overview of African social institutions, religious beliefs and rituals, political and economic organization, colonial and post-colonial experiences, and current problems.
Two hours of lecture per week.
Prerequisites: ANT01Y or permission of the instructor
T.R.A.

**ANT02Y** Comparative Slavery

An examination of slavery as an institution in several areas of the world. Principal emphasis will be on slavery in the Americas through examination of the causes and consequences of the Atlantic slave trade with cases from Brazil, Africa, the Caribbean and native America.
Prerequisite: ANT01Y
T.R.A.

**ANT03Y** Introduction to World Prehistory

The development of art, technology, religion and life ways of humans and gatherers living during the Paleolithic, from two million to ten thousand years ago. Examination of the two major cultural developments of the past ten thousand years out of which emerged modern human societies: the agricultural and urban transformations. The course emphasizes...
the ecological adaptive factors and the archaeological evidence bearing on the beginnings of permanent human settlements, the domestication of plants and animals, and the development of complex social and technological systems.

Exclusions: ANTH 114, ANTH 213
Prerequisite: ANTH 01 or permission of the instructor.

M. Wiseman

ANTH 215 Biological Anthropology
A survey of the human place in nature: origin (F1) and ongoing evolution (Spring).

Basic to the course is an understanding of the systemic theory of evolution and the principles, processes, evidence, and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized by the Physical Anthropologist. Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability, primitive biology, social organization and behavior of non-human primates, taxonomy and classification, paleoanthropological principles and human origins.

Three hours of lecture per week.

Exclusions: ANTH 235
Prerequisite: ANTH 01 or permission of the instructor.

F. D. Burton

ANTH 235 Social and Cultural Anthropology
An examination of the basic approaches to understanding social and cultural organization in societies.

Focusing on simpler societies, this course explores comparative social institutions, including kinship and marriage as well as economic, political, and religious institutions. Some attention will also be given to belief systems, education and systems, as well as processes of social change and social and anthropological perspectives on contemporary social issues.

Two hours of lecture per week.

Exclusions: ANTH 235
Prerequisite: ANTH 01 or permission of the instructor.

T.R.A.

ANTH 236 Primates Behavioral
A general introduction to the life ways of non-human primates particularly the development and development of social behavior and the role in influencing the health of the species.

Two hours of lecture per week.

Exclusions: Any A-level course.

L. Schenck

ANTH 239 and ANTH 429 Directed Reading in Anthropology
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature.

These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering. Individual tutorials, as arranged. In addition to course work to be decided by the instructor, a seminar presentation of the student's research findings is required.

Prerequisites: ANTH 01 or B-level full-course equivalency in Anthropology & permission of the instructor.

Members of Faculty

ANTH 220 Anthropological Study of Religion
A cross-cultural study of systems of belief and ritual concerning spiritual beings and the cosmos; of social actions, rights, and obligations arising out of human dependence on spiritual beings; and of magic, curing, witchcraft and sorcery. The course is concerned with the anthropological study of supernatural beliefs in small scale non-Western societies. Topics covered (time permitting) will be: the origins of religion; symbolism; myth; ritual; shamanism; magic; witchcraft; divination; ghosts; ancestor cults; and dynamics in religion.

Two hours of lecture per week.

Exclusion: ANTH 411
Prerequisite: ANTH 01 or permission of the instructor.

G. Gillis

ANTH 221 The Anthropology of Women and Gender
A cross-cultural examination of sex roles and gender relations and their implications for the position(s) of women in contemporary and traditional societies.

The course explores how and why social cultural systems based on sexual inequality originate, how they maintain themselves, and how they change. Topics include: biological freedom and constraints; cultural interpretations of femininity and masculinity; myths, ritual, metaphor and other imagery; economic and political aspects of gender relations, especially sexuality and reproduction; differences and similarities between small scale and complex societies.

Exclusions: ANTH 221
Prerequisites: ANTH 01 or WIES 01 or permission of the instructor [ANTH 220 is recommended].

T.R.A.

ANTHC 191M Economic Anthropology
An investigation of comparative economic systems from ecological and adaptive perspectives. In particular, this course focuses on methods of production, both in a developmental process and as it relates to recent social frameworks. The course examines cross-cultural systems of production, redistribution, and market exchange, with attention given to the production and use of material objects in differing cultural environments, and to the effects of change on the ideologies surrounding these objects as products of specific environments. The marketplace is used as the focus for studying these issues.

Prerequisites: ANTH 01 or permission of the instructor.

J. Rovner

ANTHC 275 Human Osteology
A "hands-on" laboratory course which introduces students to the methods of analyzing human skeletal remains.

This course is designed with the needs of Physical Anthropology and Archaeology students in mind but has proven useful to students in allied disciplines. The first half of the course is the "Bone Biology/Anatomy" part, while the second half is the "Anthropological" part. During the first half of the year, lectures and labs will cover (1) the comparative and microstructure of bone; (2) the development, growth and remodeling of bone and (3) the detailed "normal" gross anatomy of the skeleton and dentition. Topics and analytic methods covered during the second half include: (1) the recovery and treatment of skeletal remains from archaeological sites; (2) osteological description, including dental pathology; (3) osteometric description; (4) osteometric trait description; (5) methods of estimating age at death and sex; and (6) quantitative analysis of metric and non-metric data. One 1/2 hour lecture and one 1/2 hour laboratory meeting each week.

Limited enrollment: 20
Exclusion: ANTH 254
Prerequisite: ANTH 01 or ANTH 215

ANTHC 269 Death and Burial
A comparative cross-cultural study of the problems of death and suitable treatment of the dead from the last Prehistoric to today. To the archaeologist, these issues are extremely important because they are international
depictions, intended for preservation into the future of otherwise lost complex symbolic systems. A selection of ethnographic studies of burial practices will lead to an evaluation of the way in which activities are assimilated into the archaeological record. Next, we will examine archaeological burial data to compare the nature of symbolic response to death with important social and economic-cultural processes including the rise of horticulture, urbanization and the development of social stratification.

Prerequisites: Any B-level course in Anthropology

AntC36HS Fieldwork in Social and Cultural Anthropology

An investigation into how social-cultural anthropologists collect data and construct the course of fieldwork. Students will be introduced to the fieldwork experience both through reading some of the classic descriptions of research in exotic societies and by designing and carrying out a small project or projects here in Toronto. We will cover such topics as the nature and assignment of the participant-observation method, note taking and organization, expert and stetl approaches, selecting informants/consultants, informal interviewing, and household surveys. We will also consider such problems as choosing a field site, entering and living in a foreign community, culture shock and cultural bias, and meeting the logistical and medical needs of the researcher. Considerable attention will also be given to ethical issues such as confidentiality and reciprocity that arise in fieldwork. Limited enrollment: 25 with preference given to students in anthropology and international development studies.

Two hours of lecture per week.

Prerequisites: Any B-level course in Anthropology or IDS or permission of the instructor.

AntC41HS Medical Anthropology: Illness and Healing in Cultural Perspective

This course examines illness, health, and healing from a comparative cross-cultural perspective. It is composed of three overlapping topical areas: (1) the description and analysis of non-western ideas and practices; (2) the culture of North American illness and medicine, viewing biomedicine as an ethnomedical system comparable to those described in (1); (3) the development of culturally informed and socially responsible approaches to health problems in the Third World and at home. The course considers such topics as: the social and symbolic aspects of the body, the life-cycle in cross-cultural perspective, the representation and popular explanation of illness, the logic of traditional healing systems and traditional practitioners such as shamans, the intersection of illness models and practices with gender, class, power, and social conflict, mental illness in comparative perspective, invasions in health care delivery systems.

Exclusions: (AntC51), (AntC31)

Prerequisites: ANT360Y or permission of the instructor.

Martin Lender

ANTC420HS Medical Anthropology 2: Biological and Demographic Perspectives

The examination of health and disease in ecological and socio-cultural perspective. Emphasis is placed on variability of populations in disease susceptibility and resistance in an evolutionary context. With its focus course, AntC41HS, this course is designed to introduce students to the basic concepts and principles of medical anthropology. Principles of epidemiology, patterns of inheritance and biological evolution are considered. Specific topics include: the role of infectious disease and urbanization, Tay Sachs and other Jewish, psychopathology and paleopathology, as well as social change and childhood mortality in the urban environment.

Exclusion: (AntC51), (AntL51)

Prerequisites: ANT360Y or permission of the instructor. (AntC31 is recommended.) L. Schacht

AntC71HS Frontiers of Anthropology

An advanced seminar course primarily for upper-year specialization in anthropology. Topic to be announced.

Two hours of lecture per week.

Prerequisite: Permission of the instructor.

M. Leder

AntD31HS and D32HS Advanced Research in Anthropology

Directed critical examination of specific problems in Anthropology, based on library and/or field research. The courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering. Individual seminars, as arranged. In addition to course work to be decided by the instructor, one seminar presentation of the student's research findings is required.

Prerequisites: AntA16Y and two full-course equivalents in Anthropology, one of which must be at the C-level, and permission of the instructor.

Members of Faculty

ANTC20H3 Gifts, Money and Morality

Prerequisites: AntA10Y or permission of the instructor

ANTC23H3 Anthropology and Psychology

Prerequisites: AntA10Y

COURSES NOT OFFERED 2001/2002

AntB30H3 The Americas: An Anthropological Perspective

Co-requisite: AntC33H3

Exclusion: AntB37T

Prerequisite: AntA10Y, AntB226

ANTB30Y3 Introduction to Archaeological Materials

Exclusion: AntB30

Prerequisite: AntA10Y, AntB226 is recommended as a co-requisite

ANTB21Y3 Cultures of Modern Canada

Prerequisites: AntA10Y or permission of the instructor

AntB25Y3 Culture and Native Peoples

Prerequisites: AntA10Y or AntB35Y or B340Y

AntB22Y3 Prerequisite: AntA10Y or permission of the instructor

AntB21H3 First Nations of North America in Archaeological Perspective

Prerequisites: AntA10Y

Myth and Symbol

Prerequisite: AntA10Y

AntC30H5 African Cultures and Societies II: Case Studies

Exclusion: AntB308

Prerequisite: AntA10Y or AntB220Y or AntB30Y or permission of the instructor

Prerequisite: AntB21Y3 or permission of the instructor

Anthropological Perspectives on Development

Prerequisites: AntB220Y or permission of the instructor

Exclusion: AntC31H3

Research on the Social Behavior of Non-Human Primates. I

Prerequisite: AntB222Y

Exclusion: AntC31H3

Research on the Social Behavior of Non-Human Primates. II

Prerequisites: AntC22Y or permission of the instructor

Human Origins

Exclusion: AntC31H3

Prerequisites: AntA10Y or permission of the instructor

Prerequisite: AntA10Y or course equivalent at the B- or C-level in Anthropology
very origins of structure ranging from
the solar system to the largest structures,
such as large clusters of galaxies and
in the universe and made us more aware of the problems still
facing us in attaining a further
understanding. In addition there has
recently been a significant trend towards
the integration of many of the ideas of
modern high energy physics into
astronomy, with particularly interesting
developments concerning ideas about the
very first seconds in the evolution of our
universe.
The full range of modern astronomical
topics is covered in the introductory
course, for students wishing to
further their study in astronomy, there
are a number of B-level courses, which
are integral components of a number of
the Physical Sciences Specialist
Programs. In addition, the course
ASTRO 201 is intended for students who
have taken no previous astronomy, and
covers the history of modern
astronomy. It is intended to provide a historical
perspective on modern astronomy, and
by example, an introduction to the
evolution of a number of modern
scientific areas.

Please refer to the Physical Sciences
Catalogue for page 140 for
a list of the Programs offered. Students
interested in Programs which involve
Astronomy are referred to Physics and
the Applications on page 163 and
Physical and Mathematical Sciences on
page 140.

SPECIAL PROGRAM IN
ASTRONOMY, MATHEMATICS
AND PHYSICS
Supervisor: C.C. Dyson, M.J.G. Lee
The Special Program in Astronomy, Mathematics and Physics has been
withdrawn. Students currently registered will be allowed to complete the Program
(refers to 1995/96 calendar for requirements).

Astronomy (B.Sc.)
Faculty List
P.F. Kreutzberg, B.Sc., M.Sc., (Queen's),
Ph.D. (Manchester), D.Sc.
(MacEwan), Professor Emeritus
C.C. Dyson, B.Sc., M.Sc., Ph.D. (Toronto) Professor
Discipline Representative: C.C. Dyson
(416-287-7300)
Astronomy is at the same time one of the
coldest and one of the most dynamic
areas of science. It is basically the
attempt to understand the environment in
which humanity developed, from the
solar system in which we find our direct
and recent origins, to the largest distance
scales typified by quasars and the big
bang, in which we must search for the

ASTRO 201
Introduction to Astronomy
A description of the solar system, sun,
systems, galaxies and the objects of
in which we live.
In this course, the mechanisms which
make our sun and other stars shine are
explored, and the nature and evolution of
our solar system, star systems,
galaxies and the Universe is a whole are
discussed in a manner suitable for both
the science and non-science student.
Methods and techniques for exploring
the Universe are described, including the
recent use of radio telescopes and
the telescope on spacecraft. Two lectures
and one tutorial per week. This is
supplemented by a planetarium
demonstration and a class trip to the
Dundurn Observatory. Using the
College's 12 inch Schmidt-Cassegrain telescope,
students also have an opportunity to
observe and to photograph heavenly
bodies if they wish.
Two hours of lecture per week and a
one hour tutorial per week.
Exclusion: ASTRO 101, 201, 221
D. D. Williams, B. Sc. (University College North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor
J.H. Yoannson, B.A., (Victoria), M.Sc. (McGill), Ph.D. (Western Ontario), Professor
R. F. Dengler, B. Sc., Ph.D., (California, Davis), Associate Professor
C. A. Hennekamp, B. Sc. (Loyola), M.Sc., Ph.D. (Florida State), Associate Professor
C. D. Riggs, B. Sc. (North Carolina), Ph.D. (Florida State), Associate Professor
G.C. Venterberghe, B. Sc., M.Sc. (Western Ontario), Ph.D. (Queen's), Associate Professor
N. E. Williams, B. Sc. (Guelph), M.Sc. (Waterloo), Ph.D. (Toronto) Associate Professor
M. C. Audude, B. Sc. (Simon Fraser), M.Sc. (Tynehead), Ph.D. (Cornell), Assistant Professor
A. C. Mason, B. Sc. (Guelph), M.Sc. (Toronto), Ph.D. (Toronto), Assistant Professor
C. Pickett, B. Sc., M.A. (Toronto), Senior Tutor

Associate Chair: R. E. Dengler

From its early beginnings as a descriptive science, biology has developed into a sophisticated experimental science employing other basic sciences such as chemistry, physics, and mathematics. Modern biology includes the study of the structure and function of all living organisms, including humans. Within biology, various core areas may be distinguished: morphology, taxonomy, physiology, cell biology, biochemistry, genetics and evolution, and ecology. In addition to their fundamental significance, these areas are central to understanding and solving many problems currently confronting humanity.

Four Programs are offered in Biological Sciences. These include the Biological Sciences Minor and Major Programs and two Specialist Programs: Biological Sciences and Cell and Molecular Biology. The Minor Program is intended for students who have an interest in Biology, but who wish to focus their studies in Physics, Social Sciences, Management and Economics, or Humanities. The Major Program is intended for students who are interested in Biology and wish to combine these studies with other areas of interest. The Specialist Programs permit students to focus their studies on areas of contemporary biology which are of particular interest to them. The Biological Sciences Specialist degree offers the most flexibility for students who wish to concentrate on more than one area of biology. The Cell and Molecular Biology Program is more tailored to students who have a particular interest in this area.

All students registered in Biology Programs are required to take a set of three second year core lecture courses in Cell and Molecular Biology, Plant and Animal Physiology, and Biology and Evolutionary Biology, and are also required to take one of the three core laboratories in these areas. Students are advised to consult the specific Program requirements for their degree, in order to be in accord with the appropriate Program supervisor for advice, and to obtain a copy of the Biology Students' Handbook from the web at www.scu.stonybrook.edu/biology/handbooks/ which includes all required information and suggestions for streamlining.

In a few instances, courses from the other campuses may be used to satisfy Program requirements, but such substitutions must be pre-approved by the Supervisor of Studies. Students who are contemplating enrollment in graduate or professional schools should consult those Programs for specific entrance requirements which may be satisfied while fulfilling degree requirements.

Courses in Neuroscience and Environmental Sciences

NeuroSciences, Neurobiology, NROCS3H, Developmental Neurobiology, and ECOG3H4, Biodiversity and Biogeography, were previously Biology courses and may now be taken as Biology courses to satisfy requirements in the Major and Specialist Programs in the Biological Sciences.

MINOR PROGRAM IN BIOLOGICAL SCIENCES

Supervisor: Docter, D. (Room 5552, 416-287-7425)

This Program must include BGYA01Y plus one or two electives in Biology. At least 1 F.C.E. must be at the C- or D-Level.
NUTRITION, DEVELOPMENT AND REPRODUCTION. In the third quarter, cell structure and function, mitosis, meiosis, and genetics are considered. The fourth quarter concentrates on ecology and evolution by examining natural selection, speciation, population, community structure and dynamics and biodiversity.

Two one-hour lectures and one three-hour laboratory per week
Exclusion: BIO101Y
C.K. Gowind (Team Leader)/T.B.A./C. Hazakamp/H. Mason

BIO101Y Cell and Molecular Biology
An introduction to cellular and molecular aspects of cells and organisms.
This core course will provide a survey of the methods by which molecules and cells are studied and how genetic information is utilized to affect normal metabolism and to allow the cell to respond to external stimuli. Some of the topics to be covered include: the flow of genetic information from DNA to RNA; proteins, RNA processing, basic mechanisms that control gene expression, the structure and function of membranes and the maintenance of subcellular compartments, protein sorting, energy production and utilization, the cytoskeleton and cell motility, the cell cycle, and intracellular communication. Cell-to-cell communication mechanisms. Two one-hour lectures per week, plus one two-hour tutorial every third week.
NOTE: Tutorial times alternate with those in both BIO100Y and BIO100Y
Exclusion: BIO202Y
Enrollment: BIO401Y
D. Riggs

BIO102H Cell and Molecular Biology Laboratory
A practical introduction to experimentation in cell and molecular biology. Six modules will introduce students to concepts and techniques in the general preparation of solutions and buffers, molecular biology, biochemistry, microscopy and data manipulation and communication skills.
This core laboratory course is the gateway for Cell and Molecular Biology specialists to get into upper level laboratory training. The lab will meet twice per week for three hours in order to teach the fundamental skills necessary for advanced laboratories.
Exclusion: BIO202Y
Pre-requisites: BIO101Y
This course is restricted to students enrolled in the Specialist Program in Cell and Molecular Biology or the Specialist Program in Biological Chemistry or the Major Program in Biochemistry. Additional students will be admitted by instructor if space permits.
D. Riggs

BIO102H Animal Physiology
A core course in physiology with one of the two terms devoted to animal physiology and the other term to plant physiology. The animal physiology term will consider regulatory mechanisms which control and coordinate the functioning of the body such as neural action potentials, synaptic transmission, muscle contraction, neuroendocrine systems, sensory receptors, and hormonal action. The plant physiology term will consider the structure of plant cells; the transport and translocation of water, dissolved minerals and organic compounds; the use of light energy to convert carbon dioxide to carbohydrates in photosynthesis; the regulation of growth and development through the coordinated action of specific hormones and environmental cues; and adaptations of plants to their environment.
Two one-hour lectures per week, plus one two-hour laboratory every third week.
NOTE: Tutorial times alternate with those in both BIO100Y and BIO100Y
Exclusion: NROB300
Enrollment: BIO401Y
Pre-requisites: BIO401Y/C.K. Gowind/T.B.A.

BIO103H Animal Physiology Laboratory
A course related to laboratory exercises in regulatory mechanisms that control and coordinate the functioning of the body. Laboratory exercises examine aspects of nerve compound action potential, chemical synaptic transmission in the CNS and peripheral conduction, sustained muscle, heart rhythm, mechanosensation, and feeding patterns in fast and slow non-mammalian. Written reports and tests of the laboratory exercises and a formal examination of all the material are required.
One three-hour laboratory per week and one one-hour tutorial.
Exclusion: ZOO325Y
Pre-requisites: BIO100Y or NROB300
C.K. Gowind
BGTV903 Ecology and Evolutionary Biology
Evolution is the study of the change in the form and/or behavior of organisms between generations. Ecology is the study of the interactions that determine the distribution and abundance of organisms. The fall term covers attributes of populations, species interactions (competition, predation, herbivory, community energetics, nutrient cycling, and conservation). The spring term covers the development of evolutionary theory, maintenance of genetic variation, origins of species, adaptation, and phylogenetics. Two one-hour lectures per week, plus one two-hour tutorial every third week. Prerequisite: ESSA049 or (ESSA049 & any B- or C-level Biology or Environmental Science course). D.D. Williams

BGTV1203 Biochemistry I: Proteins & Enzymes
A course designed to introduce students to the properties and behavior of proteins and enzymes. The course will examine factors involved in determining protein structure and the relationships between proteins structure and function. Topics will include: the chemistry of amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycoconjugates; lipoproteins; protein-protein and protein-DNA interactions; the analysis of the interaction of small molecules with proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action. One three-hour lecture per week. Exclusions: BCH301L, BCH320Y, BCH221Y Prerequisite: BGTV10Y or CHMB40Y T.R.A.

BGTV1203 Biochemistry II: Bioenergetics & Metabolism
A course designed to introduce students to cellular metabolism, the process by which living organisms are able to extract and utilize energy from their environment for the maintenance of life. Topics will include: basic principles of bioenergetics; chemiosmotic and oxidative phosphorylation; carbohydrate metabolism, aspects of the metabolism of lipids and amino acids; metabolic control mechanisms (including allosteric control) and post-translational development. One three-hour lecture per week. Exclusions: BCH301L, BCH320Y Prerequisite: BGTV10Y & CHMB44Y T.R.A.

BGTV1690 Transmission Genetics
A lecture and laboratory course in the genetics of inheritance. The course will begin with a brief review of transcription and translation and the enzymes and proteins involved in gene expression. The first major segment will include embryonic development of vertebrates and invertebrates. The second major segment will include a consideration of segregation of alleles, independent assortment, mapping techniques, allelic relationships, gene interactions, and quantitative genetics. The second major segment will be a consideration of types of mutations: point mutations, insertions in chromosome structure, and mutations in chromosome number, and the relationship of mutations to genetic disease and evolution. Two one-hour lectures and one three-hour lecture per week. Exclusions: BIO295H Prerequisite: BGTV10Y C. Hasenampf

BGTV1703 Microbiology I: The Bacterial Cell
A lecture and laboratory course describing the general properties of bacterial cells, employing selected organisms to illustrate the role of bacteria in health, research, biotechnology, the environment and in any field using molecular biology and recombinant DNA approaches. The laboratories include practical training in basic microbiological techniques which are useful in molecular biology and many other fields. One one-hour lecture and one three-hour laboratory each week. Exclusions: MPL515Y Prerequisite: BGTV10Y or BGTV30Y J.C. Silver

BGTV1803 Microbiology II: Perspectives of the Microbial World
A lecture course in which the relationships between micro-organisms and human populations are investigated. Many of these interactions are beneficial (e.g. biodegradation DNA technology and biotechnology) while others are detrimental (e.g. infectious disease). Examples of both types of interactions will be discussed to gain a perspective on the importance of microbes. One two-hour lecture per week. Prerequisite: BGTV170H J.C. Silver

BGTV1903 Animal Developmental Biology
This lecture course will focus on cellular and molecular events which underlie animal development. Particular references will be given to the concept that regulation of gene activity is fundamental to development. Following a discussion of cellular and molecular events in early embryonic life, the development of several model systems will be analyzed at the cellular and molecular level such as Drosophila, Xenopus development in the eye, spermatogenesis and myogenesis. Two one-hour lecture per week. Prerequisite: BGTV10Y J.R. Brown

BGTV211H Vertebrate Histology: Cells and Tissues
A detailed examination of the structure of cells and the various tissue types which make up the vertebrate body: epithelial, connective, muscular, nervous, blood, and lymphatic. Emphasis is placed on the development and function of the cells and tissues. Two one-hour lectures and one three-hour laboratory per week. Prerequisite: BGTV10Y or BGTV30Y L. Ellis

BGTV2203 Vertebrate Histology: Organs
The histological structure of the major organ systems of the vertebrate body: integument, digestive, respiratory, excretory, reproductive. Particular emphasis is placed on functional morphology, evolution, and development. Two one-hour lectures, plus one two-hour tutorial per week. Prerequisite: BGTV211H

BGTV2303 Practical Approaches to Biochemistry
A course designed to introduce students to a range of experimental approaches used in biochemical research. The course will introduce students to practical and theoretical aspects of a variety of procedures used in the biochemical laboratory including: spectroscopy, chromatography, electrophoresis, the use of radiolabeled, protein purification. Students will be expected to solve numerical problems involving these and related processes. One two-hour laboratory/tutorial plus one four-hour laboratory each week. Exclusions: BCH101H, BIOL107H Prerequisite: BGTV112H & BGTV121H Co-requisite: BCH111H T.R.A.

BGTV2303 Plant Histology
A plant structure and development course dealing with the major growth organs, cells, and tissues that make up the plant body of herbaceous and woody vascular plants: xylem and phloem, mesophyll, parenchyma, collenchyma, sclerenchyma,
epidemics, pest and disease management, and the development and evolution of complex cell types are also considered.

Two-one-hour lectures and one three-hour laboratory per week.

Exclusions: BOTTH1
Prerequisites: BOYB10Y or BOYB20Y
R.E. Danger

BOYB305H Plant Morphology
A plant structure and development course concerned with both the fundamental form and the variation in form of root, stem, and leaf of vascular plants. Particular attention is given to the developmental processes that are responsible for the diversity in plant form. Some consideration is given to the significance of structural variations in the environment in which a plant grows. One two-hour lecture and one one-hour lecture per week.

Prerequisites: BOYB10Y or BOYB20Y or BOYB300
R.E. Danger

BOYC405H Plant Diversity
A comparative approach to the structure, development and reproduction of selected primitive and advanced vascular plants: club mosses, spike mosses, horsetails, ferns, gymnosperms, and angiosperms. The study of water and developing vegetative and reproductive structures contributes to an understanding of some of the important trends in the evolution of land plants over the past 400 million years.

Two one-hour lectures and one three-hour laboratory per week.

Exclusion: BOTCH10
Prerequisites: BOYB10Y or BOYB20Y
R.E. Danger

BOYD500H Foundations of Anthropology
An introduction to the theory, practice, methodology and analytic techniques employed in the study of the distribution and decipherment of disease in human populations.

This course will examine aspects of epidemiology such as the development of techniques employed in studying diseases, the meaning of “population” in research and methods of sampling, the types of controls measured, the analysis of data, the investigation of epidemics, the designing and assessing of preventative measures, and the application of epidemiology in community health.

Prerequisites: 0.5 P.C.E. B-level Biology course or 0.5 P.C.E. Statistics course
P. Thompson

BOYC505H Marine Biology
A field course on selected topics of marine biology with particular emphasis on tropical waters. This course will be held during mid-February at a field station in the Caribbean and will have a considerable practical component. Prior to field work, there will be a series of lectures at Scarborough. On site, students will study three main habitat types: rocky shore, open ocean, and coral reef. In addition, students will work on individual field projects.

Limited enrolment: 12
Exclusion: EXC510H
Prerequisites: BOYB10Y or ESEC304H or permission of the instructor
D.D. Williams

As this course is often oversubscribed, interested students must contact the instructor well in advance of the start of the fall term for details and must, at that time, be prepared to place a deposit towards the cost of airfare and accommodation. Places are allocated on a first-come, first-served basis.

BOYC545H Animal Behaviour
A broad survey of the study of animal behaviour from the perspectives of behavioural ecology and ethology, with emphasis on understanding behavioural patterns in the context of evolutionary theory.

Topics include evolution of behaviour, social organisation, social conflict, parental care, parent-offspring conflict, social behaviour, evolutionary genetics, and developmental stability. Students will examine original scientific papers in addition to the course textbook to gain an understanding of current research in animal behaviour. One two-hour lecture and one one-hour tutorial per week.

Exclusion: ZOO502H
Prerequisites: BOYB10Y
M. Andrada

BOYD505H Microbes in the Environment
An examination of the relationships between microorganisms (algae, bacteria, fungi) and their environment. Fundamental aspects of microbial diversity, atomic factors of major importance to microorganisms will be discussed. Fundamentals of microbial ecology in aquatic and terrestrial habitats will be examined, including seasonal dynamics, interactions among micro-organisms, productivity, and the role of micro-organisms in nutrient cycling and food web.

One two-hour lecture per week. Several tutorials and problem sets.

Exclusion: ESEC509H
Prerequisites: BOYB10Y or BOYB20Y
T.B.A.

BOYC576H Evolutionary and Applied Biology of Insects
An exploration of the origins of insects, their modern diversity, and their impact on mankind.

Coverage will begin by examining the evolutionary history of the group, which extends back over 450 million years, together with its diversity and morphology. This will be followed by consideration of those species which are important in mankind in terms of commerce, medicine (e.g. arthropoda, disease, and forensic science), and as competitors. The course will conclude with discussion of the pivotal role played by insects in world ecosystems. Two-one-hour lectures/tutorials per week, and one three-hour laboratory per week. Offered in alternate years.

Prerequisite: ESEC404H
D.D. Williams

BOYD582H Advanced Population Ecology
The study of the interactions that determine the distribution and abundance of populations.

Emphasis is placed on discussion of experimental studies from current literature. Topics include limiting factors of population growth; demography: reproduction; population regulation; competition and cooperation; responses to disturbance and stress; the concept of early and late successional stages. One two-hour lecture and one three-hour laboratory per week. Offered in alternate years.

Exclusion: BIOG10Y
Prerequisites: BOYB180Y and BOYB202H
R. Beusman

BOYC582H Conservation Biology
The study of scientific principles of biological conservation. Lectures will include ecological principles of biological conservation; the impacts of disease, mating, hybridization, and natural catastrophes on small or fragmented populations; problems and progress in restoration and management of natural populations; captive breeding programs; waste management; dynamic interactions between global climate change and biological conservation. One two-hour lecture and one three-hour tutorial per week.

Exclusion: BIOG510H
Prerequisites: BOYB10Y
R. Beusman

BOYD586H Environmental Toxicology
An examination of the effects of pollutants on ecosystem structure and function. Pollutants are substances that occur in the environment at least in part as a result of anthropogenic activity, and have deleterious effects on biota. This course deals with the effects of pollutants on the structure (species composition, diversity and food web complexity) of the aquatic and terrestrial ecosystems. Standard methods of assessment of pollutant effects on individuals, populations, and communities will be discussed. One two-hour lecture per week. Several tutorials and problem sets.

Prerequisite: BOYB10Y
T.B.A.

BOYD765H Advanced Field Courses in Ecology
Intermediate selections from a variety of field courses offered by the Ontario Universities Program in Field Biology, a co-operative arrangement among the Ontario Universities. Courses of one to two weeks' duration at a variety of field sites usually from late April through mid-September. A fee for room and board is charged in addition to normal tuition. Lists of courses available are posted early in January. Sign-up is on a first-come, first-served basis. Students register in the fall after the courses have been completed. See the Scarborough co-ordinator, Professor R. P. Beusman, for further details.

Prerequisites: BOYB10Y or permission of the instructor
R. Beusman

BOYD101Y Supervised Study in Biology
An independent study course designed to permit intensive examination of the literature of a selected topic and/or laboratory or field project as biology. Supervision of the work is arranged by mutual agreement between student and instructor. This course requires the student to present further results as a short seminar report.
Two three-hour lecture/laboratories per week.

Limited enrollment: 34

Pre-requisites: BGYC11H, BGYC13H, BGYC17H

Corequisites: BGYC12H

Priority will be given to students enrolled in the Specialist Program in Cell and Molecular Biology. Additional students will be admitted only if space permits.

J.C. Silver

BGYZ27H3 Molecular Biology Laboratory in Nucleic Acids & Proteins

A laboratory course offering "hands on" experience in a range of molecular techniques such as Northern and Southern blotting, in situ hybridization, gel shift assays for transcription factors, Western blotting and immunocytochemistry. The course will be organized around a central theme, namely the expression of heat shock genes. In response to stress, all cells activate a highly conserved repair/protective mechanism called the "heat shock" or "stress response" in which ongoing transcription and translation is transiently expressed and genes encoding heat shock proteins are induced.

Intensive laboratory course with two meetings of three hours on the same day.

Limited enrollment: 34

Pre-requisite: BGYZ11H

* Priority will be given to students enrolled in the Specialist Program in Cell and Molecular Biology. Additional students will be admitted by instructor if space permits.

L.E. Brown

BGYZ29H3 Molecular Biology of the Gene

A lecture course focusing on recent advances in the molecular biology of the gene.

The following areas will be included: organization of the eukaryotic genome, regulation of eukaryotic transcription, transcription factors, RNA processing, post-transcriptional control mechanisms, transcriptional control, the molecular biology of chromosomes. An important feature of the course will be to introduce students to current research papers in scientific journals.

One two-hour lecture per week.

Limited enrollment: 30

Pre-requisite: BGYC13H

T.B.A.

LESA54H3 Human Biology

A course that will cover selected, contemporary topics in human biology such as evaluating medical discoveries, nutrition, identified conditions, human evolution. Topics may vary each time the course is given or permit inclusion of recent studies.

This course does not count for credit in any Biology Program.

Exclusions: BGYA10Y1, BGYA10Y, BGYA10Y7

C. Pickett

COURSES NOT OPENED 2001/2002

BGYZ17H3 Advanced Plant Physiology

Exclusions: BOTZ15Y1, BGY141H

Pre-requisite: BGYB10Y & BGYB20Y

BGYZ23H3 Ecology Field Course

Exclusions: BGY100H

Pre-requisite: BGYB20Y

Corequisite: BGYB20Y

BGYZ26H3 Limnology

Exclusions: ZOO100H, ZOO241Y

Pre-requisite: BGYB20Y

BGYZ11H3 Advanced Community Ecology

Pre-requisite: BGYB20Y

BGYD16H3 Molecular Genetics

Pre-requisite: BGYC11H

BGYD24H3Vertebrate Endocrinology

Exclusions: ZOO120H

Pre-requisite: BGYC12H

BGYD31H3 River Ecology

Exclusions: ZOO100Y

Pre-requisite: BGYB20Y

BGYD20H3 Seminar in Conservation Biology

Pre/Corequisite: BGYC53H

Chemistry (B.Sc.)

Faculty List

A.J. Kagey, B.A. (Cornell), Ph.D. (Illinois), P.G.S.C., Professor Emeritus

A. Walker, B.Sc., Ph.D. (Toronto), Professor Emeritus

R.A. McClelland, B.Sc., Ph.D. (Toronto), Professor

J.C. Thompson, B.A., Ph.D. (Cambridge), Professor

T.T. Temple, B.S. (Georgia Inst. Tech.), Ph.D. (Harvard), Professor

D.J. Donaldson, B.Sc. (Carleton), Ph.D. (Carleton), Associate Professor

S. Pann, B.A. (Oxford), Ph.D. (Cambridge), Associate Professor

F. Wan, B.A. (Bayreuth), Ph.D. (Toronto), Associate Professor

K.A. Henderson, B.Sc., M.Ed. (York), Senior Lecturer

J. Potter, B.Sc. (Birmingham), M.Sc. (Windsor), Senior Lecturer

A. Vener, B.Sc. (St. Andrews), M.Sc., M.Eng (Toronto), Senior Lecturer

N.E. Mitchell, B.Sc. (Guelph), Senior Tutor

W. Renton, B.Sc. (Toronto), Senior Tutor

L. Teh S.S., B.Sc., Ph.D. (Hong Kong), Senior Lecturer

Coordinator of First Year Studies in Chemistry: A. Vener (416-287-7224)

Chemistry can be viewed at both a challenging intellectual pursuit and a practical tool for developing and handling the resources of our contemporary society. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the Physical or Life sciences. The Chemistry Handbook, which is available on the Web, outlines the teaching and research activities of the Chemistry faculty and offers a wide range of informal advice on undergraduate activities.

The three courses in chemistry is CHM100Y which must be taken by those who wish to take further chemistry courses or who require chemistry for another course.

Completion of CHM100Y permits students to take any of the 4-level courses in Chemistry. These are divided according to the following sub-disciplines: Inorganic Chemistry, Analytical Chemistry, Physical Chemistry, Environmental Chemistry and Organic Chemistry. Therefore, one can proceed to an advanced-level course at the C and D-level.

Students who wish to enroll in St. George 400-series courses should note that completion of the following groups of courses, together with their prerequisites and corequisites, will normally ensure admission to the St. George courses indicated, provided that the standing or permission of the instructor is obtained.

Informal advice on undergraduate programs, teaching and research activities is available at http://www.chem.utoronto.ca/firstyear/
### SPECIALIST PROGRAM IN CHEMISTRY

**Supervisor:** K.A. Henderson

(416-287-7212)

This Program is suited for students who are interested in obtaining a strong background in all aspects of modern chemistry. The Program requires completion of 14.0 F.C.E.'s as follows:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second or Third Year</th>
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<tbody>
<tr>
<td>CHM105Y</td>
<td>CHM106H</td>
</tr>
<tr>
<td>CHM107Y</td>
<td>CHM202Y</td>
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<td>CHM111Y</td>
<td>CHM203Y</td>
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<tr>
<td>or CHM112H</td>
<td>CHM211H or CHM311H</td>
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<tr>
<td>or CHM113H</td>
<td>CHM317Y or CHM318Y</td>
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- **Note:** MAT247H. This course requires completion of ChM1001 and is compulsory for ChM1001 and is a prerequisite for ChM1002.

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
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<tbody>
<tr>
<td>BGY12Y</td>
<td>PSCD00H</td>
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<tr>
<td>BGY23Y</td>
<td>PSCD00H</td>
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</tbody>
</table>

- **Note:** These courses are available only on an unrestricted basis.

**Specialty Areas**

- **Analytical Chemistry**
- **Organic Chemistry**
- **Physical Chemistry**
- **Inorganic Chemistry**
- **Physical Sciences**
- **Chemical Physics**

For more information, please refer to the Faculty of Science's Undergraduate Programs section.
**CHM110** is sorely needed for [PHYS100/PHYS200/PHYS210]. **PHYS201** and **PHYS211** are not prerequisites. If **CHM111** is chosen, **CHM211** and **MAT141** are prerequisites.

**MAJOR PROGRAM IN BIOCHEMISTRY**

Supervisor: T. Pitter (416-287-1223)

This Program places a greater emphasis on the biological aspect of chemistry than does the General Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also wish to study the chemistry of living systems. Students should complete the following 7.5 C.E.C.:

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second and Later Years</th>
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</thead>
<tbody>
<tr>
<td><strong>CHM102</strong> Introductory Biology</td>
<td><strong>BOY107</strong> Cell &amp; Molecular Biology</td>
</tr>
<tr>
<td>or <strong>CHM103</strong> General Chemistry</td>
<td><strong>BOY110</strong> Biochemistry I: Proteins &amp; Enzymes</td>
</tr>
<tr>
<td><strong>CHM214</strong> Organic Chemistry I</td>
<td><strong>BOY111</strong> Biochemistry II: Biometrics &amp; Metabolism</td>
</tr>
<tr>
<td>or <strong>CHM414</strong> Intermediate Organic Chemistry</td>
<td><strong>BOY223</strong> Practical Approaches to Biochemistry</td>
</tr>
<tr>
<td><strong>CHM216</strong> Techniques in Analytical Chemistry</td>
<td><strong>CHM216</strong> Chromatography and Spectroscopy</td>
</tr>
<tr>
<td><strong>CHM314</strong> Analytical Chemistry</td>
<td><strong>CHM316</strong> Mass Spectrometry and Spectroscopy</td>
</tr>
</tbody>
</table>

**CHM318** Introduction to Inorganic Chemistry

- Fundamentals of coordination, solid state and descriptive Inorganic Chemistry.
- Structures, bonding and reactivity of transition metal coordination compounds; solid state structures and energies; selected chemistry of non-transition elements. Examples will be taken from environmentally and biologically important inorganic compounds.
- Two hours of lecture and one hour of tutorial per week.

Exclusion: **CHM323**

Prerequisite: **CHM214**

**CHM347** Organic Chemistry I

- The chemistry of the principal functional groups encountered in organic and aromatic compounds, in terms of reactivity, stereochemistry and mechanism. An introduction to organic spectroscopy will also be given.

Exclusions: **CHM349**

Prerequisites: **CHM214** and **CHM218**

**CHM353** Physical Chemistry I

- Chemical measurement, energy, entropy, equilibrium, heat, mass, and phase changes, heat capacities, temperature; properties of gases; temperature, pressure, and volume; applications and solutions; and phase transitions.

Exclusions: **CHM347**

Prerequisite: **CHM347**

**CHM364** Chemistry of Materials

- The chemistry of materials science, including metals, ceramics, polymers, and biomaterials.

Exclusions: **CHM319**

Prerequisites: **CHM318** and **CHM347**

**CHM380** Environmental Chemistry

- An introduction to the principles and methods of environmental analysis, chemical kinetics, and reaction rates.

Exclusions: **CHM318**

Prerequisites: **CHM318** and **CHM347**

**CHM410** Intermediate Inorganic Chemistry

- An introduction to the concepts and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM415** Physical Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM416** Analytical Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM437** Organic Synthesis

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM445** Inorganic Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM455** Physical Chemistry III

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM464** Analytical Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM475** Environmental Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM515** Advanced Inorganic Chemistry

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM535** Physical Chemistry IV

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM545** Organic Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM555** Environmental Chemistry III

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM565** Analytical Chemistry III

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM615** Advanced Inorganic Chemistry II

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM635** Physical Chemistry V

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM645** Organic Chemistry III

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM655** Environmental Chemistry IV

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**CHM665** Analytical Chemistry IV

- An introduction to the principles and methods of chemical kinetics, chemical equilibrium, and reaction mechanisms.

Exclusions: **CHM347**

Prerequisites: **CHM347**

**PHYS100** is also required for **CHM111**.
BOY/G120 Biochemistry I: Proteins & Enzymes
A course designed to introduce students to the properties and behavior of proteins and enzymes. The course will analyze factors involved in determining protein structure and the relationships between protein structure and function. Topics will include: the chemistry of amino acids, the primary, secondary, tertiary and quaternary structures of proteins, protein conformation and protein denaturation; glycoproteins, lipoproteins; protein-protein and protein-DNA interactions; the analysis of the interaction of small molecules with proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.
Three one-hour lectures per week. Exclusions: (BIOC35Y, BIOC35Y), BIOC108H, BIOC320Y, BIOC321Y. Prerequisites: (BIOA03Y) or (BIOB10Y) & CHMB44Y
J.W. Gaud

CHM2C1H3 Topics in Physical Chemistry
Advanced topics in Physical Chemistry with emphasis on biochemical systems. Spectroscopic methods for (bio)molecular structure determination, including IR, NMR, UV/Vis; coupled chemical; polymers and biopolymers, bonding structure and statistical mechanics; physical chemistry of membranes, active transport and diffusion; cellular (bio)chemical reactions. Practical and computer work complement the lecture material with a mix of experimentation and simulation. Two one-hour lectures per week and a four-hour computational/project session in alternating weeks. Prerequisites: CHMB22Y and MATB41H

CHM2C1Y3 Intermediate inorganic Chemistry
A more detailed discussion than in CHMB211H of the structure, bonding, spectroscopy and reactivity of main group, transition metal and organometallic compounds. Special topics may include inorganic solids and minerals, biologically and environmentally important inorganic compounds, and catalysis. The laboratory section introduces a variety of synthetic techniques, with characterization of products by both chemical and instrumental methods. Two hours of lectures per week, and a seven-hour laboratory each week. Prerequisite: CHMB31H
Strongly recommended preparation: (CHMB11T, CHMB16H, CHMB22Y, CHMB44Y) replaces CHMC33H

CHM4C1H2 Organic Synthesis
Principles of synthesis of organic and functional group transformations. Compound stereochemistry, spectroscopy and structure elucidation. Two one-hour lectures per week. Exclusions: CHMC42Y, CHMC46H. Prerequisites: CHMC44Y replaces CHMC44Y

CHM4C1H3 Bio-Organic Chemistry
The chemistry of heterocycles, nucleic acids, steroids, and other natural products; amino acids, proteins and carbohydrates; introduction to enzyme structure and catalysis. Two one-hour lectures per week. Exclusions: CHMC41Y, CHMC41Y replaces CHMC41Y

CHM5D1H3 Symmetry in Chemistry
An essential and non-mathematical approach to the applications of symmetry and group theory in chemistry. The course will cover areas such as structure and bonding, electronic and vibrational spectra, and reactivity. Examples will be taken from both organic and inorganic chemistry. Two hours of lectures per week. Prerequisites: CHMC35Y or CHMC35Y or CHMC44Y or CHMC46H or permission of the instructor.

CHM6D1H3 Introduction to Research
Participation in a chemical research project under the direction of a member of the Chemistry staff. Required approximately 260 hours of effort. The objective is to develop familiarity with some of the methods of modern chemical research. The particular research problem to be pursued will be determined by discussions between the student and the faculty director of the research. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusions: CHMC141T, CHMC142T, CHMC143T. Prerequisite: Permission of the Instructor. Co-requisite: Students undertaking a project in Inorganic Chemistry are required to take the Advanced Laboratory course CHM45H1H offered on the St. George campus.

CHM6D0Y3 Directed Research
A report on a selected course topic in chemistry based on literature research and carried out under the direction of one of the chemistry staff. Approximately 260 hours of work are expected. The objective is to obtain a thorough understanding of a topic of current interest and to prepare a comprehensive and critical report on this subject. The student will also develop familiarity with the techniques of searching the chemical literature. The topic will be selected in conference with a member of the chemistry staff. Progress will be monitored during periodic consultations with the staff member.

Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusions: CHMC141T, CHMC142T, CHMC143T. Prerequisite: Permission of the Instructor. Co-requisite: Students undertaking a project in Inorganic Chemistry are required to take the Advanced Laboratory course CHM45H1H offered on the St. George campus.

COURSES NOT OFFERED
CHMC4113 Organic Reaction Mechanisms

CHMC5501 Organic Reaction Mechanisms
Rome will prepare students for a more extended study of the Roman Empire at its height (from Caesar to Constantine). This course will make extensive use of literary sources (all read in English translation) and archaeological evidence. J.H. Corbett

CLA010H3 Great and Latin for Seminarians
An examination of the role of Greek and Latin in the formulation of technical terms in the science disciplines.
The course aims to provide the student who has no previous knowledge of classical Greek or Latin with the ability to determine the meaning of scientific words by analyzing their structure, to increase his/her range and comprehension of technical vocabulary, to acquire familiarity with the principles of scientific word formation, and to help him/her develop sound nomenclatural practices. Topics will include: characteristics, rules, and codes of scientific nomenclature; Latin and Greek roots, affixes, combining forms, and inflectional patterns; translation and pronunciation; malformedness, measurement, and hybrids. Particular emphasis will be placed on the biological and medical sciences.
Exclusions: (CLA111), (CLA211), (CLA212)

CLA024H3 The Classical World In Film
A study of the representation of the Classical world and historical events in film. Topics will include: how the Greek and Roman worlds were reconstructed by filmmakers, their use of spectacle, costume, and furnishings, and the influence of archaeology on their portrayals. We will study films critically for historical accuracy and faithfulness to Classical sources.

CLA032H3 Army and Empire in the Roman World
An introduction to the basic military organization of the Roman Empire.

CLA033H3 The Mediterranean World
A survey of the civilizations which flourished around the Mediterranean Sea in ancient times. The primary focus will be on the Roman Empire; a brief survey of the history of the Near East and Greece in the classical period (600-330 B.C.E.) will serve to set the historical context. The course will begin by defining the Mediterranean region in relation to Africa, the Middle East and Europe. Students will then be introduced to the distinctive natural environment of the Mediterranean basin with emphasis on the major processes shaping the societies which flourished there. A brief survey of most eastern and Greek History from early times until the rise of major phases of Roman military history for in-depth study. Caesar's conquest of Gaul, the first Jewish Revolt against Rome and the military establishment of the Later Empire. All original sources will be read in English translation. Exclusions: (CLA101H), (CLA102H), (CLA103H), (CLA104H)

CLA049H3 Selected Topics in Classical Literature
A detailed study of an author or a genre in Classical Literature in Translation.

CLA050H3 Selected Topics in Classical Civilization
A detailed study of a theme in Classical Civilization, all sources will be read in translation. For 2001/2002 the topic will be Greek and Roman comedy. Exclusions: (CLA111), (CLA211), (CLA212)

CLA061H3 Classics and the Computer
An independent research project using the resources of the computer program and the internet. The advent of an extensive, multi-faceted computer program for the study of Greek antiquity in the form of the Perseus Project and the increasing number of databases and programs on the internet with content relevant to the study of ancient Rome have opened new possibilities for undergraduate research in many areas of life in classical Greece and Rome: history, literature, language, geography, the visual arts and architecture, among others. Under the supervision of a member of faculty, the student will design his or her own "pathway" or will create a Web page on a topic to be selected in consultation with the supervisor. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusions: (CLA111), (CLA211), (CLA212)

CLA071H3 Selected Topics in Classical Civilization
A detailed study of a theme in Classical Civilization, all sources will be read in translation. For 2001/2002 the topic will be Greek and Roman comedy. Exclusions: (CLA111), (CLA211), (CLA212)

CLA074H3 The Classical World In Film
A study of the representation of the Classical world and historical events in film. Topics will include: how the Greek and Roman worlds were reconstructed by filmmakers, their use of spectacle, costume, and furnishings, and the influence of archaeology on their portrayals. We will study films critically for historical accuracy and faithfulness to Classical sources.

CLA076H3 Army and Empire in the Roman World
An introduction to the basic military organization of the Roman Empire.

CLA077H3 The Mediterranean World
A survey of the civilizations which flourished around the Mediterranean Sea in ancient times. The primary focus will be on the Roman Empire; a brief survey of the history of the Near East and Greece in the classical period (600-330 B.C.E.) will serve to set the historical context. The course will begin by defining the Mediterranean region in relation to Africa, the Middle East and Europe. Students will then be introduced to the distinctive natural environment of the Mediterranean basin with emphasis on the major processes shaping the societies which flourished there. A brief survey of most eastern and Greek History from early times until the rise of major phases of Roman military history for in-depth study. Caesar's conquest of Gaul, the first Jewish Revolt against Rome and the military establishment of the Later Empire. All original sources will be read in English translation. Exclusions: (CLA101H), (CLA102H), (CLA103H), (CLA104H)

CLA089H3 Classics and the Computer
An independent research project using the resources of the computer program and the internet. The advent of an extensive, multi-faceted computer program for the study of Greek antiquity in the form of the Perseus Project and the increasing number of databases and programs on the internet with content relevant to the study of ancient Rome have opened new possibilities for undergraduate research in many areas of life in classical Greece and Rome: history, literature, language, geography, the visual arts and architecture, among others. Under the supervision of a member of faculty, the student will design his or her own "pathway" or will create a Web page on a topic to be selected in consultation with the supervisor. Students are advised that they must obtain consent from the supervising instructor before registering for this course. Exclusions: (CLA111), (CLA211), (CLA212)

CLA091H3 Selected Topics in Classical Literature
A detailed study of an author or a genre in Classical Literature in Translation. For 2001/2002 the topic will be Greek and Roman comedy. Exclusions: (CLA111), (CLA211), (CLA212)

CLA093H3 Selected Topics in Classical Civilization
A detailed study of a theme in Classical Civilization, all sources will be read in translation. For 2001/2002 the topic will be Greek and Roman comedy. Exclusions: (CLA111), (CLA211), (CLA212)

CLA098H3 The Classical World In Film
A study of the representation of the Classical world and historical events in film. Topics will include: how the Greek and Roman worlds were reconstructed by filmmakers, their use of spectacle, costume, and furnishings, and the influence of archaeology on their portrayals. We will study films critically for historical accuracy and faithfulness to Classical sources.

CLA101H3 Great and Latin for Seminarians
An examination of the role of Greek and Latin in the formulation of technical terms in the science disciplines.
The course aims to provide the student who has no previous knowledge of classical Greek or Latin with the ability to determine the meaning of scientific words by analyzing their structure, to increase his/her range and comprehension of technical vocabulary, to acquire familiarity with the principles of scientific word formation, and to help him/her develop sound nomenclatural practices. Topics will include: characteristics, rules, and codes of scientific nomenclature; Latin and Greek roots, affixes, combining forms, and inflectional patterns; translation and pronunciation; malformedness, measurement, and hybrids. Particular emphasis will be placed on the biological and medical sciences.
Exclusions: (CLA111), (CLA211), (CLA212)

CLA102H3 The Classical World In Film
A study of the representation of the Classical world and historical events in film. Topics will include: how the Greek and Roman worlds were reconstructed by filmmakers, their use of spectacle, costume, and furnishings, and the influence of archaeology on their portrayals. We will study films critically for historical accuracy and faithfulness to Classical sources.

CLA103H3 Army and Empire in the Roman World
An introduction to the basic military organization of the Roman Empire.

CLA104H3 The Mediterranean World
A survey of the civilizations which flourished around the Mediterranean Sea in ancient times. The primary focus will be on the Roman Empire; a brief survey of the history of the Near East and Greece in the classical period (600-330 B.C.E.) will serve to set the historical context. The course will begin by defining the Mediterranean region in relation to Africa, the Middle East and Europe. Students will then be introduced to the distinctive natural environment of the Mediterranean basin with emphasis on the major processes shaping the societies which flourished there. A brief survey of most eastern and Greek History from early times until the rise of major phases of Roman military history for in-depth study. Caesar's conquest of Gaul, the first Jewish Revolt against Rome and the military establishment of the Later Empire. All original sources will be read in English translation. Exclusions: (CLA101H), (CLA102H), (CLA103H), (CLA104H)
Cognitive Science (B.Sc.)

Faculty List
R.I. Blinick, M.A., Ph.D. (Chicago), Professor
G. Hisli, B.A., B.Sc., M.Sc. (A.N.U., U.B.C.), Ph.D. (Brown), Professor
J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Cornell), Professor
A. Kazla, A.B., M.A., Ph.D. (Columbia), Professor
C.M. MacLeod, B.A. (McGill), Ph.D. (Washington), Professor
M.A. Schmuckler, B.A. (Syracuse), Ph.D. (Cornell), Professor
W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Professor
M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor

S. Sudnow, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
B. S. Smith, B.A. (Carleton), M.Sc., Ph.D. (Alberta), Associate Professor

Supervisor: A. Kazla (416-287-7466)

Cognitive Science is the study of knowledge-how humans acquire knowledge, and how machines acquire knowledge, and that knowledge, and that particular knowledge to solve problems. Cognitive science is particularly interested in the way we use symbolic systems, such as natural or computer languages, drawing, or mathematical notation, to organize our knowledge of the world. Cognitive Science considers questions like: Are we born with some knowledge already in place? How does our experience of the world allow us to develop knowledge? Does knowledge stored as visual images, words, or abstract propositions? How do we maintain and store the complicated system of rules that allows us to use language? How do language and culture affect our understanding of the world? How is the knowledge stored in a computer like and unlike the knowledge stored in our heads?

The Cognitive Science Program (Major and Specialist) draw on philosophy, linguistics, computer science and psychology to answer these questions. The Programs are excellent preparation for students interested in teaching in junior schools, who should add a course in Philosophy of Education, and obtain practice teaching experience. They are also an excellent base for students interested in careers in Speech Pathology, who should add courses in human physiology. Also, they prepare students for careers in Psychology and Philosophy, and are good adjuncts for careers in Computer Science and Neuroscience.

First-Year Students in Cognitive Science LINB80H and PSY10Y1/PSY12Y1 are recommended in first year if intending to pursue a Specialist or Major Program in Cognitive Science.

SPECIALIST PROGRAM IN COGNITIVE SCIENCE

Supervisor: A. Kazla (416-287-7466)

Note: The following course is Nine are specified course.

1. Psychology/Neuroscience

One and one-half full-course equivalents

SPE820H Introduction to Developmental Psychology
SPE840H Introduction to Social Psychology
SPE850H Sensation and Perception
SPE880H Human Stress and Behaviour
SPE808H Advanced Data Analysis in Psychology
SPE826H Introduction to Computer Science
SPE840H Introduction to Cognitive Science
SPE845H Psychometric Methods Laboratory
SPE850H Psychology of Music

Supervisor: A. Kazla (416-287-7466)

Note: Nine full-course equivalents

LINB80H Introduction to Philosophy (Year 1)
PSY10Y1 Introduction to Psychology (Year 1)
LINB40H Practical Language Analysis: Phonology (Year 2)
LINB60H Practical Language Analysis: Syntax (Year 2)
PHL20H1 Belief, Knowledge and Truth (Year 2)
PHL60H1 Foundations of Cognitive Science (Year 2)
PSY80H1 Data Analysis in Psychology (Year 2)
PSY815H Perception and Cognition (Year 2)
PSY817H Memory and Cognition (Year 2)
LINB65H1 Practical Language Analysis: Morphology (Year 2)
PHL80H1 Theories of Mind (Year 3)
PLC25H1 Computer Science in Psychology (Year 3)
PLC25H1 Computer Science in Psychology (Year 3)
PLC30H1 Introduction to Computer Science
PLC35H1 Introduction to Computer Science

Note: Students may substitute COQ91Y1 for PSY815H1 to satisfy Cognitive Science Program requirements for Specified Courses. If this option is selected, PSY815H1 may be used to satisfy Cognitive Science Program requirements in the Psychology. If this option is selected, PSY815H1 may be used to satisfy Cognitive Science Program requirements in the Psychology.

2. Linguistics

One-half full-course equivalent chosen from the following:
LINB70H Structure of English
LINB90H Phonetics: The Study of Sounds
LINB55H Second Language Learning
LINC35H Semantics: The Study of Meaning
LINC17Y Syntax
LINC12H Semantics: The Study of Meaning
PLC24H Developmental Psychology
PLC25H Disorders of Speech and Language
PLC92H Supervised Study in Cognitive Science

3. Philosophy and Theoretical Psychology

One-half full-course equivalent chosen from the following:
COG91H Supervised Study in Cognitive Science
COG92H Symbolic Logic
PHB85H Philosophy of Science
PHB86H Philosophy of Language
PHB25H Modal Logic and Probability
PSY820H Theoretical Psychology
PSY830H Fundamental Issues in Cognitive Science

Current Topics in Theoretical Psychology
4. Cognate Courses

One full-course equivalent chosen from the following:

- MAT 225H Linear Algebra I
- MAT 226Y Calculus
- MAT 227Y Introduction to Optimization
- MAT 229Y Introduction to Mathematical Modeling
- CSC 320H Discrete Mathematics for Computer Science
- CSC 325H Computer Organization
- CSC 326H Computer Applications

One-half course in Anthropology at the B. level or higher.

NOTE: It is expected that most students will take MAT 226Y to fulfill their cognate course requirement.

MAJOR PROGRAM IN COGNITIVE SCIENCE

Supervisor: A. Kahn (416-387-7660)

NOTE: The Major Program consists of 7.5 F.C.E.’s. Seven are specified courses. One-half F.C.E. to be selected from the Psychology bin.

Specified Courses:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSE 201Y</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>LIN 491Y</td>
<td>General Linguistics</td>
</tr>
<tr>
<td>LIN 494H</td>
<td>Practical Language Analysis</td>
</tr>
<tr>
<td>LIN 498H</td>
<td>Analytical Phonology</td>
</tr>
<tr>
<td>PSE 203H</td>
<td>Theories of Mind</td>
</tr>
<tr>
<td>PSE 205H</td>
<td>Foundations of Cognitive Science</td>
</tr>
<tr>
<td>PSE 207H</td>
<td>Data Analysis in Psychology</td>
</tr>
<tr>
<td>PSE 211H</td>
<td>Perception and Cognition</td>
</tr>
<tr>
<td>PSE 217H</td>
<td>Motor and Cognition</td>
</tr>
<tr>
<td>PSE 225H</td>
<td>Psycholinguistics</td>
</tr>
<tr>
<td>CSC 200H</td>
<td>Introduction to Computer Science</td>
</tr>
</tbody>
</table>

NOTE: (i) Students with no familiarity with the use of computers would be advised to take CSC 200H in their first year, followed by CSC 204H in the following year. Students with familiarity with computers, but no computing programming skills, may wish to take CSC 201H and 202H in their first year. Only students with computer programming experience should attempt CSICA 350H without first taking CSICA 350H. Students may wish to consult with the Supervisor of Program before deciding on the most appropriate computer science course sequence.

Psychology One-half full-course equivalent chosen from the following:

- PSE 203H Introduction to Developmental Psychology
- PSE 205H Sensation and Perception
- PSE 211H Human Brain and Behaviour
- PSE 217H Advanced Data Analysis in Psychology
- PSE 225H Psychopathological Methodology
- PSE 227H Cognitive and Representation
- PSE 229H Psychology of Music
- PSE 231H Theoretical Psychology
- PSE 233H The Scientific Study of Consciousness and Unconscious Influences
- NRO 208H Neurosciences: I. Cell
- NRO 209H Anatomy and Physiology Supervised Study in
- NRO 210H Cognitive Science

NOTE: Students may substitute (COSC 201Y) for PSE 211H to satisfy Cognitive Science Program requirements for Specified Courses. If this option is selected, PSE 211H may be used to satisfy Cognitive Science Program requirements in the Psychology bin.

COSC 201H | Supervised Study in Cognitive Science |

Supervised reading or research project. These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses in close consultation with the supervisor. They are not intended as a substitute for scheduled advanced courses. A written report or paper is normally required. Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

Preregister: Some F.C.E.’s are at the B- or C-level in COG and/or LIN and/or PSY; permission of the supervisor.

Session: Winter Day T.B.A.

Computer Science (B.Sc.)

Faculty List

- C.C. Dyer, B.Sc. (Bishop’s M.Sc., Ph.D. (Toronto); Professor
- W.J. Ewing, B.Sc. (UBC), M.Sc., Ph.D. (Toronto); Professor
- V. Halldisac, B.A. (Princeton), Ph.D. (Harvard); Professor
- A. Mandal, B.S., M.S.E., M.A., Ph.D. (Princeton); Professor
- M. Melloy, Ph.D. (Carnegie Mellon); Assistant Professor
- N. Cheng, B.Sc., Senior Lecturer
- G.J. Culp, B.Sc., U.B.C.); Senior Lecturer
- G. Lorincz, B.Sc., M.Sc., (Toronto); Senior Lecturer
- C. Jensen, B.Sc., M.Sc., (Toronto); Lecturer
- B. Pecore, B.Sc., M.Sc., (Toronto); Lecturer

Discipline Representative: M. Molloy (416-387-7255)

Computer science is the study of the use of computers to process information. The form of this information may vary widely, from the business person’s records or the scientist’s experimental results to the language's texts. One of the fundamental concepts in computer science is the algorithm—a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Computer scientists are concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Close collaboration is the development of tools to foster these goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is especially concerned with the inherent difficulty of problems that can be made into tractable by computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

The Special Project in Computer Science prepares a student for graduate study and for a professional position in the computer field.

Limited Enrolment: Because of pressures of demand for places, there has been a need to place restriction on the number of students admitted to the major in Computer Science. Information on how to apply for admission to the program is given below.

Please refer to the Physical Sciences Scarborough Coursebook on page 148 for a list of the courses offered. Descriptions of these courses are to be found on subsequent pages of this section.

SPECIAL PROGRAM IN COMPUTER SCIENCE

1. General Stream
2. Information Systems Stream
3. Joint Mathematics Stream
4. Joint Physics Stream
5. Joint Statistics Stream
6. Software Engineering Stream

Admission to the Program

Each year, students are admitted to the six streams of the Special Program in addition to those admitted to the Special Co-operative Program. There are three possible ways to be admitted:

1. Directly from Secondary School. Up to 40 students will be admitted directly from high school on the basis of academic performance. Applicants must have completed OAC Calculus and OAC Algebra and Geometry.

2. At the End of 1st Year. Applicants must have completed all the courses in the first year of their stream(s) of the Special Program. Students must also demonstrate a willingness to contribute to the conduct of their first year’s G.P.A. and their marks in Computer Science and Mathematics courses. The minimum G.P.A. required is 2.5. It is never less than 2.00 and for 201 will not be greater than 2.80.

3. Admission After 1st Year. Admission of students after second year will also be on the basis of the grades they have received in Computer Science and Mathematics courses.

Students applying at the end of their first year or later will be considered together for a total of approximately 40 places in the Special Program. As noted above, a G.P.A. of 2.80 and above will guarantee acceptance (provided the
4. Joint Physics Stream
Supervisor: C.C. Dyre (416-287-7206)
This stream provides a broadly based education in Computer Science and Physics. It prepares a student for a professional position in the computer field and is appropriate for students who may wish to pursue a career in teaching or in government or industry.

Additional 1st Year Requirements:
Both
PHYA1H Principles of Classical Physics
PHYA1W Principles of Modern Physics

Second Year:
CSCB2H File Structure and Data Management
CSCB3HJ Discrete Mathematics
CSCB3H0 Computer Organization
CSCB7H1 Fundamental Data Structures and Techniques
MATB2HJ Linear Algebra II
MATB4HJ Techniques of the Calculus of Several Variables I

Second or Third Year:
PHYB2HJ Vibrations and Waves
PHYB3HJ Electricity and Magnetism
PHYB4HJ Physics Laboratory

Third Year:
CSCB9H1 Methods and Tools for Software Development
CSCC2HJ Principles of Programming Languages
CSCC3HJ Numerical Algebra and Optimization

Fourth Year:
CSCC3HJ Principles of Programming Languages
CSCC4HJ Computational Complexity and Computability
CSCC7HJ Data Structures and Algorithm Analysis

1. S. P. C. E. from MATB3H7 and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

Fourth Year:
CSCC3HJ Principles of Programming Languages
CSCC4HJ Computational Complexity and Computability
CSCC7HJ Data Structures and Algorithm Analysis

1. S. P. C. E. from MATB3H7 and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

6. Software Engineering Stream
Supervisor: G. Cope (416-287-7253)
Software engineering is concerned with the timely and cost-effective development of quality software. This stream provides employment opportunities in software development and to graduate study in computer science.

Second Year:
CSCB2HJ File Structures and Data Management
CSCB3HJ Discrete Mathematics
CSCB3H0 Computer Organization
CSCB7H1 Fundamental Data Structures and Techniques
MATB2HJ Linear Algebra II
MATB4HJ Techniques of the Calculus of Several Variables I

Second or Third Year:
CSCB2HJ Principles of Programming Languages
CSCC2HJ Principles of Programming Languages
CSCC5H7 Data Structures and Algorithm Analysis

Fourth Year:
CSCC3HJ Principles of Programming Languages
CSCC4HJ Computational Complexity and Computability
CSCC7HJ Data Structures and Algorithm Analysis

1. S. P. C. E. from MATB3H7 and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

Fourth Year:
CSCC3HJ Principles of Programming Languages
CSCC4HJ Computational Complexity and Computability
CSCC7HJ Data Structures and Algorithm Analysis

1. S. P. C. E. from MATB3H7 and C-level STA courses and 300- and 400-level STA courses on the St. George campus.

NOTE: 300-series and 400-series must be completed at the St. George campus. Consult the Department of Computer Science Undergraduate Handbook or contact the web site http://www.cs.utoronto.ca.

SPECIALIST (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE
Supervisor: J. Stader, C.C. Dyre (416-287-7206)
Co-ordinator: R. Louden (416-287-7254)

The co-operative Program in Computer Science is a work-study Program which combines academic studies in computer science, and other disciplines in the physical sciences with work placements in public and private enterprises. For students who enter the Program in 2001/2002 or later, three work terms must be completed along with the academic Program. For students who entered before 2001/2002, the requirement is two work terms, with an optional third work term with permission of the Co-ordinator.

The Program prepares students for permanent employment with government and business enterprises concerned with research and technology as well as for graduate study in computer science. Graduates receive a four year Honours B.Sc. with a specialist certification in Computer Science.
The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Computer Science.

Admission to the Program
Applicants may apply to the Program directly from secondary school or may apply as transfer students from college or university. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed. Applicants must indicate the special code for this University of Toronto at Scarborough Program on the application for Admission to an Ontario University. Once the University of Toronto is notified of the application, candidates are sent information on how to download the co-op supplementary application from our admissions website. To be considered for the first round of selection, applicants must return the co-op supplementary form by March 15, the final deadline. Therefore, it is essential that applicants submit the initial OUAC application at least six weeks prior to these dates.

Note that enrollment in the Program is limited. Admission is granted on the basis of the applicant's academic performance, background or experience in relevant subjects and a letter of reference from a high school or university instructor in mathematics or science.

Fees:
Every student in a co-operative Program is required to pay additional fees as established by the University.

This Program requires two P.C.E.'s (four years) of study and two work terms of four months each. Exceptionally, with the agreement of the co-op Administrator, a third work term may be allowed. To be eligible for their third work term, students must have completed at least 10 credits. Work placement opportunities are arranged by the Physics Sciences Division, but must be won by students in competition with all applicants for the positions.

Performance on work terms will be evaluated by both employer and co-op administrator. Students must also attain a report for each work term, for evaluation (including a third work term if taken).

To maintain standing in the Program, to be eligible for a work term, and to receive specialist certification upon graduation a student must:
- maintain a cumulative grade point average of at least 5.5
- complete Introduction to Computer Science Co-op in first year
- receive a satisfactory evaluation for work term performance and work term reports
- be registered as a full-time student during study terms
- return to studies after each work term

For Program outlines, please refer to the description of the Specialist Program in Computer Science.

Note: This course is intended to be taken in the first work term, but if an alternative order is adopted, care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

Each student's program requires the annual approval of the supervisor of studies.

Note: Students are individually responsible to ensure that they have correctly completed program and degree requirements for graduation.

Introduction to Computer Science Co-op
During their first year, students will participate in a co-op tutorial. This tutorial is designed to prepare students for their work term experience and is crucial for assuring that students get the most benefit from their co-op placement opportunities. The tutorial will cover a variety of topics that will help students to develop the skills and tools they require to secure placements that best match their interests. Students will gain insights into the industry as well as research opportunities. The tutorial will consist of presentations, hands-on activities and group exercises. This tutorial is in addition to the 20 full-course degree requirement. There are no additional fees associated with this tutorial.

Satisfactory participation in the tutorial is required before students go on work terms.

C093H Computer Science Co-op Work Term
Work terms are an integral part of the computer practical work experience in a related field is alternated with study terms to enhance academic studies and develop general personal skills. Work term reports are required at the completion of each work term.

Continuation in a co-op Program is based on a student's ability to meet both the academic and work term requirements. To be eligible for work terms, students must be in good standing and have completed at least 7.5 P.C.E.'s. Course credit of 0.5 P.C.E. is granted for each four-month work period. Work-term credits are in addition to the 20 full-course degree requirements and are granted on a Credit, No Credit system. There are no additional course fees for work terms.

Major Program in Computer Science

Supervisor: G. Cutler (416-287-7235)

Note: Registration in this Program is limited. A maximum of 30 students will be admitted annually to the second year of the Program. Selection will be based on the first year G.P.A. and marks in first-year courses in Computer Science and Mathematics. The minimum G.P.A. is calculated annually. It is never less than 2.00 and for 2001 will not be greater than 2.80.

Eight P.C.E.'s are required. The courses need not be taken in the order given, but care must be taken to ensure that prerequisites are satisfied and conflicts avoided.

First Year:
CSCA06H Introduction to Computer Programming
CSCA08H Introduction to Computer Science
MAT1A3H Linear Algebra I
MAT1A8H Calculus

Second Year:
CSCB22H File Structures and Data Management
CSCB38H Discrete Mathematics
CSCB56H Computer Organization
CSCB708I Fundamental Data Structures and Techniques
MAT2A4H Linear Algebra II
MAT2A4H Techniques of the Calculus of Several Variables I
MAT2A4H Techniques of the Calculus of Several Variables II

Third or Fourth Year:
Four half-courses to be chosen from the following options:
- at least one of: CSC296H, CSC296H, CSC296H, CSC296H, CSC296H, CSC296H, CSC296H, CSC296H
- at least one of: CSC454H, CSC454H, CSC454H, CSC454H, CSC454H, CSC454H, CSC454H, CSC454H
- at least one of: CSC204H, CSC211H, CSC204H, CSC204H

Specialization in Computer Science:

Introduction to Computer Programming

Introduction to basic concepts and techniques of programming.

Introduction to programming using the Java language, including statements and loops; arrays and records; operations on strings and numbers; subprograms. Data and program structuring.

This course is intended for students with no prior exposure to computer programming. Students who have sufficient programming experience may enroll directly in CSC255H, consult the instructor.
or the supervisor of studies for guidance and for a copy of the information sheet "One Stop Computer Science Advising". Two hours of lectures per week, two hours of tutorial per week and four to five hours of laboratory work (on average) per week. Exclusions: CSCI65AH, CSCI448H, CSCI449H, CSCI450H, CSCI451H. Prerequisite: Grade 12 mathematics (expected). You may take CSCI451H after CSCI450H but you may not take CSCI466H after CSCI450H.

CSCI450H Introduction to Scientific Computing
An introduction to the use of computers in the physical and biological sciences. Choice and design of algorithms and their implementation in a high-level computer language, such as C or FORTRAN, for the solution of problems arising in the physical and biological sciences. Topics will include elementary numerical analysis, such as numerical integration, mathematical modeling of physical systems, data fitting and interpolation. The use of database systems for information storage and query and the use of graphical display devices and software for visualization of physical systems will be considered. The use of computer algebra systems will also be considered. (Noted primarily for the physical and biological science students who do not plan to pursue any of the Programs in computer science or computer science.) Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week. Exclusions: CSCI451H, CSCI448H, CSCI449H, CSCI450H with permission of the instructor) & one A-level science course.

CSCI451H Introduction to Computer Science
Abstract data types and data structures for implementing them. Linked data structures, Encapsulation, object-oriented programming in a language such as Java. Specifications. Analyzing the correctness and efficiency of programs using modular programming. Recursion. This course assumes programming experience in an object-oriented language such as C or Java, as provided by CSCI450H. Students who already have this background may be able to register for CSCI451H. Prerequisite: CSCI450H. Students who have never taken a course in computer science will find the course too difficult and “drop down” to CSCI450H in terms when CSCI450H is offered. The deadline for “dropping down” is the end of the fifth week of classes.

CSCI452H Computer Organization
This course is designed to give students an understanding of the operation and the hardware of a modern digital computer. Specific topics include: introduction to Boolean algebra, the design and analysis of gate networks, memory devices, the organization of a simple micro-Programmed machine, basic data representation, assembly language, addressing structures, mechanisms for input and output, the structure of peripheral devices, some case studies of particular machines. There will be four laboratory periods in which students will conduct experiments with digital logic circuits. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week. Exclusions: CSCI238H, CSCI361H or CSCI371H. Prerequisite: CSCI451H or two OAC mathematics courses.

CSCI453H Methods and Tools for Software Development
Techniques for programming efficiently by making use of operating systems facilities and standard utilities and software tools. Topics discussed and used are from the UNIX environment using the C programming language. Topics from: Programmable command interpreters ("shells"). Program generators, networking, interprocess communication. Environment and process management. Challenges assignments emphasize the importance of good design, programming techniques and use of appropriate tools. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week. Exclusions: CSCI238H, CSCI361H or CSCI371H. Prerequisite: CSCI451H or one from CSCI452H or CSCI453H or CSCI466H or proficiency in C.

CSCI454H File Structures and Data Management
An introduction to techniques for sorting, searching, and managing long-term data in computer systems. Hardware and software aspects of data processing: processors, storage devices, communications, file I/O control. Techniques for organizing and managing files: serial files, direct files, indexed files, multikey files, integrated files systems. Introduction to database management systems with emphasis on relational data base systems. Two hours of lecture per week, one hour of tutorial per week and four to five hours of laboratory work (on average) per week. Exclusions: CSCI451H, CSCI453H.

CSCI455H Discrete Mathematics for Computer Scientists
A rigorous treatment of certain aspects of discrete mathematics, with applications to computer science. Topics include mathematical induction, proof correctness, recursion, divide-and-conquer algorithms, finite state machines, and an introduction to the propositional and predicate calculus. Three hours of lecture per week and one hour of laboratory per week. Exclusions: CSCI453H, CSCI454H. Prerequisite: CSCI450H.
Economics for Management Studies (B.B.A., B.A.)

Faculty List
M. Klimenko, S.B. (M.I.T.), M. Phil., Ph.D. (Yale), Professor
D. Hyatt, B.A., M.A., Ph.D. (York (Toronto)), Associate Professor
L.C. Parker, B.A. (Marquette), M.A. (Toronto), Ph.D. (Yale), Associate Professor
M. Campbell, B.S., M.A., Ph.D. (Toronto), Assistant Professor
G. Cleveland, B.A. (Dalhousie), M.A., Ph.D. (York (Toronto)), Assistant Professor
G. Farrow, B. Sc., M.Sc., (York (Toronto)), Ph.D. (Western), Associate Professor
W. New, B.A. (Western Ontario), M.A., Ph.D. (Toronto), Assistant Professor
J. Parkinson, B.A. (Western Ontario), M.A., Ph.D. (Toronto), Assistant Professor

Economics studies how consumers and producers interact in a market economy to provide goods and services. Economists also study how this process grows and changes over time, and under what circumstances it may fail to function in an optimal fashion. Economic policies to remedy those failures are also examined.

In the Division of Management, the study of economics is oriented primarily to the needs of students interested in management studies. Those of you who attend will focus on the ways in which firms and consumers interact in market economies.

However, students interested in the wide variety of problems considered by economists will find these areas are also examined in our courses.

The curriculum provides an excellent background for careers in business, government, and the professions, and may be of considerable interest to students specializing in other disciplines as well.

Students may focus their study of economics in the specialist co-op program of the B.B.A., or may either major or minor in economics as part of the B.A. degree. Students may also choose economics as a stream in the B.B.A. Program. There is also a joint specialist Program with political science.

Finally, economics plays a significant role within the general B.B.A. Program.

Students who wish to pursue a graduate program in Economics will require some additional courses in Economic Theory not offered at Scarborough. Such students should consult with the Undergraduate Secretary of the Department of Economics at the St. George campus, or the graduate secretary of the Department of Economics where they intend to do further work to determine what additional courses would be required to do graduate work in this field. The Supervisor of Studies at Scarborough can help you with this task.

Programs in Economics for Management Studies

Students generally apply to enter a program at the end of their first year. Later admissions are also possible. Students should consult the alienation discussions below. The following Programs are offered:

1. Specialist (Co-op) in Economic Policy Management and Data Analysis - a specialist degree with a strong emphasis on courses dealing with the economic policy process, and including Co-op work terms. This Program is consistent with a twenty-course degree (B.B.A.) as described in detail below.

2. Specialist in Political Science & Economics for Management Studies - a specialist degree with equal amounts of Economics and Political Science (six courses each), consistent with a twenty-course degree (B.B.A.) as described in detail below.

3. Major in Economics for Management Studies - program of six full courses of Economics for Management Studies, one-half course in Mathematics and one of Humanities, consistent with either a fifteen-course or a twenty-course degree (B.B.A.) as described in detail below.

4. Minor in Economics for Management Studies - program of four full courses of Economics for Management Studies, consistent with either a fifteen-course or a twenty-course degree (B.B.A.) as described in detail below.

Other Programs with a substantial component of Economics for Management Studies

1. Specialist in Management (B.B.A.) - a program emphasizing Management but also requiring five full courses in Economics for Management Studies, leading to a B.B.A. degree. Students must be granted admission to take additional courses in Management for the Management for the B.B.A. Co-op Program Student in the Management section of the Calendar.

2. Specialist (Co-op) in Management (B.B.A.) - same as #1 above, but includes Co-op work terms.

3. Specialist in Management (B.B.A.) - a program emphasizing Management but also requiring five full courses in Economics for Management Studies, leading to a B.B.A. degree. Students must be granted admission to take five additional courses in Economics for Management Studies to qualify for graduation within the Economic Data Analysis stream. Students granted admission to the Economic Data Analysis stream can choose to complete the Management for the B.B.A. Co-op Program Student in the Management section of the Calendar.

4. Specialist (Co-op) in Management (B.B.A.) - same as #1 above, but includes Co-op work terms.

5. Specialist (Co-op) in Management (B.B.A.) - a program emphasizing Management but also requiring five full courses in Economics for Management Studies, leading to a B.B.A. degree. Students must be granted admission to take five additional courses in Economics for Management Studies to qualify for graduation within the Economic Data Analysis stream. Students granted admission to the Economic Data Analysis stream can choose to complete the Management for the B.B.A. Co-op Program Student in the Management section of the Calendar.

6. Specialist (Co-op) in Management (B.B.A.) - same as #1 above, but includes Co-op work terms.

7. Specialist or Major in International Development Studies or Major in Public Policy Programs in the Social Sciences within which students may choose to include a significant component from Economics for Management Studies. Described in detail elsewhere in the Calendar.

Admission to Programs in Economics for Management Studies and in Management

All students, even those who have been directed to enter the Division from high school (and who are guaranteed admission into programs in the Division), must formally apply to specific programs after four terms have been completed. Decisions are made on program applications by the Supervisor of Studies only twice a year, in May and in August. Those decisions are based on program requests which students submit to the Registrar (see winter pre-registration instructions which are provided at that time by the Registrar). Only transfer students are considered at other times. Students should have no credits or less when they seek admission to programs in the Division of Management.

Those students directly admitted into the Division from high school are guaranteed entry into a program in the Division only a limited number of students not directly admitted to Co-op Programs will be accepted into Co-op Programs after first year. Directly admitted students must maintain a C.P.A. of 2.0 or greater after completing eight credits in order to remain in these programs.

Admission to the Minor Program in Economics for Management Studies is not limited. All students who apply for this program will be admitted. However, students are warned that they are not guaranteed admission to B.B.A. and C-level courses, and thus will be accommodated only after other program students have been admitted in these courses. These programs may be unavailable, or available only in the summer.

Even students who are not admitted to the Major in Economics for Management Studies may be eligible to graduate in this program. In order to do so, non-program students must complete all program requirements and must apply to the Registrar's Office to be certified in the program at the time of graduation. Non-program students are warned that they will be admitted to B.B.A. and C-level courses only after program students have been admitted to these courses, and that some courses may thus be unavailable, or available only in the summer. Note also that the Supervisor of Studies will not approve any program exceptions for non-program students.

Economics for Management Studies Courses with Limited Enrollment

Students who have been admitted to all the Specialist and Major programs listed above are guaranteed access to enough courses in Economics for Management Studies to complete their programs. To protect that access, students must register early in the registration process. After a period during which program students are given priority, access to all remaining spaces in Economics for Management courses will be open to all students in the University on a first-come, first-served basis. In some years, students not admitted to Programs may find it difficult or impossible to obtain any specific course in Economics for Management Studies.

The Co-operative Program in Economic Policy Management and Data Analytics

Supervisor: J. Parkerson, E-210, 416-873-7300

REGISTRATION IN THIS PROGRAM WILL BEGIN IN APRIL/MAY 2002

The co-operative program in Economic Policy Management and Data Analytics (B.B.A., BEPMDA) is a work-study program which combines academic study with work experience in public and private enterprises. BEPMDA is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills gained by knowledge of economic theory. Work terms and the time of the academic program gives at least junior apprenticeship to professional economists.

Admission to the Program

Students who have been directly admitted to the Division from high school to a Co-operative Program in the Division may apply for the Co-op Program in BEPMDA after completing the first year. They are, however, full-course equivalents, including ECONOMY and MATH. Other students may apply to this program at the end of the first year and will be evaluated on the basis of grades including ECONOMY and MATH.
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Program Requirements

The Co-operative Program in Economic Policy Management and Data Analysis requires the completion of the following minimum requirements as part of a two-year B.B.A.

1. 8.5 F.C.E.'s in Economics for Management Studies, including:
   - ECON201, ECON202, ECON203, ECON204,
   - ECON213, ECON215, ECON216, ECON221,
   - ECON224, ECON230, ECON232, ECON235,
   - ECON260, ECON262, ECON270, and 2 additional C-level
   - ECON301, ECON302, ECON303, ECON304,
   - ECON305, ECON306, ECON307, ECON308,
   - ECON310, ECON311, ECON312, ECON313,
   - ECON314, ECON315, ECON316, ECON317,
   - ECON320, ECON321, ECON322, ECON323,
   - ECON324, ECON325, ECON326, ECON327,
   - ECON328, ECON329, ECON330, ECON331,
   - ECON332, ECON333, ECON334, ECON335,
   - ECON336, ECON337, ECON338, ECON339,
   - ECON340, ECON341, ECON342, ECON343,
   - ECON344, ECON345, ECON346, ECON347,
   - ECON348, ECON349, ECON350, ECON351,
   - ECON352, ECON353, ECON354, ECON355,
   - ECON356, ECON357, ECON358, ECON359,
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   - ECON680, ECON681, ECON682, ECON683,
   - ECON684, ECON685, ECON686, ECON687,
ECMC4190 Industrial Organisation
The economics of the firm in a market environment. The topics to be studied include: business organisation, market conduct, product differentiation, diversification, research and development, and international trade. There will be some limited use of calculus in this course.
Two hours of lectures per week.
Limited enrolment: 60
Exclusion: ECO210 (ECOC165)
Prerequisites: ECON20H or ECON202H or ECON208H

ECMC4949 Financial Economics
An introduction to the role of banking institutions in the economy. There will be a focus on the institutional arrangements and basic economic theory underlying financial intermediation. Specifically, the interaction of the Bank of Canada, the chartered banks, trust companies, credit unions and households in the credit and financial services market will be considered.
Limited enrolment: 60 per section
Exclusion: ECO214
Prerequisites: ECON205H or ECON206H or ECON207Y

ECMG2109 Labour Economics I
Applications of the tools of microeconomics to study labour market issues. The topics covered will include: fertility and family formation; labour supply; labour demand; equilibrium in competitive and non-competitive markets; employers' approaches to the labour market, unemployment. Policy applications will include: income maintenance

ECMG2110 Business Negotiation
An introduction to the theory and practice of negotiation in business. Almost all business relationships (for example, relationships among managers and relationships with suppliers and customers) require negotiations. This course provides the student with a set of approaches and tactics to use in different forums of negotiations, and an introduction to traditional and emerging procedures for resolving disputes if negotiations break down. To gain practical experience, students will participate in exercises which simulate negotiations.
Limited enrolment: 60
This course will count as a "B" course in Economics for Management Studies

ECMG2541 Introduction to Industrial Relations
An overview of the industrial system and process in Canada. This course will introduce students to: industrial relations theory, the roles of unions and management, employment law, labour law, the impacts of collective bargaining on the economy and the firm, strikes and lockouts, grievance arbitration, collective bargaining in the private sector, occupational health and safety and workers' compensation, and the history of the Canadian industrial relations system. Students will participate in collective bargaining simulations.
Limited enrolment: 60
This course will count as a "B" course in Economics for Management Studies

ECMG2542 Introduction to Financial Markets and Institutions
An overview of financial markets and institutions in Canada. The course will cover: financial markets, the role of banks, the role of non-bank financial institutions, and the role of central banks.
Limited enrolment: 60
This course will count as a "B" course in Economics for Management Studies

ECMG3261 Financial Economics
This course is designed to introduce students to the theoretical underpinnings and practical applications of financial economics. Topics covered include: intertemporal choice, expected utility theory, the Capital Asset Pricing Model (CAPM), the cost of capital, the role of debt, the impact on a firm's dividend policy, market efficiency, the term structure of interest rates, and option pricing models. Students will acquire both a broad theoretical understanding of financial economics and review key empirical tests of the theories developed.
Two hours of lectures per week.
Limited enrolment: 60
Exclusion: ECO216
Prerequisites: ECON209H or ECON210H or ECON214H

ECMG3540 International Economics
Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange rate determination in a world of floating exchange rates. The international monetary
English (B.A.)

Faculty List

W. J. Howard, M.A., S.T.B. (Toronto), Ph.D. (London), Professor Emeritus
R.M. Brown, M.A., Ph.D. (New York), Professor
M.C. Cuddy-Kennedy, M.A., Ph.D. (Toronto)
K. Underwood, B.A. (York), Assistant Professor
D. Dobinsky, B.A. (Toronto), Instructor
M. H. MacDonald, B.A. (Victoria), Instructor
A.J. Daftari, B.A. (McGill), Ph.D. (Stirlingham), Associate Professor
M.R. Goldstone, M.A., M.A. (Toronto), Assistant Professor

Discipline Representative: Until June 30, 2001
G. Leonard (613-287-1743)
July 1, 2001 to June 30, 2002
G. Leonard (613-287-7155)
Supervisor of Students: Until June 30, 2001
G. Leonard (613-287-1741)
July 1, 2001 to June 30, 2002
D. Bennett (613-287-7139)

The discipline of English involves not only broad study of the great works of literature but also training in complex modes of interpretation and communications that are invaluable in our increasingly media-saturated world. At St. Michael's, the curriculum offers courses in the English language and literature of Britain, Canada, America, and other areas of the world, as well as providing large investigations of cultures. An emphasis on literature of more recent periods is balanced by historical examinations of earlier eras and a general survey of the British literary tradition. All courses place emphasis on close responsive reading, critical thinking, and clarity of expression. English courses introduce students to the study of English at the university level. ENG101Y is designed both for students planning a Specialist, Major, or Minor in English and for students having a general interest in literature or the humanities. ENG101H is available for those students enrolled in ENG101Y who want training in writing essays for English courses. It is required of English specialists and majors before they take ENG201Y, a course that continues instruction in the writing of English essays.

ENG201Y and ENG202Y are required for all students planning a Specialist or Major Program in English. Other B-level courses require no prerequisites and are available both to beginning and to more advanced students.

C-level courses, as their prerequisites indicate, are designed to build upon previous work and presuppose some background in critical skills and some familiarity with the subject matter.

D-level courses provide opportunities for more specialized study and require some independent work on the part of the student. These courses are generally restricted to enrolment and may involve the presentation of seminars.

Students are advised to check the prerequisites for C- and D-level courses when planning their individual programs, and to consult with the Supervisor of Studies or the Discipline Representative before taking courses on other campuses.

SPECIALIST PROGRAM IN ENGLISH

Superior- Until June 30, 2001
G. Leonard (613-287-1743)
July 1, 2001 to June 30, 2002
D. Bennett (613-287-7139)

Ten full-course equivalents in English are required. They should be selected as follows:

1. ENGL11Y Introduction to Literary Study: The Twentieth Century

2. ENGL12H Writing Workshop for ENGL11Y Students who have completed ENGL11Y prior to Winter 1999/00 or have ENGL12H to fulfill requirements for a Specialist Program in English

3. ENGL20Y Critical Thinking and Writing

4. ENGL20Z English Literature: Historical Survey

5. One full-course equivalent from the Following: English 10, ENG101Y, ENG101Z, ENG101H, ENG102Y, ENG102Z, ENG102H, ENG221Y, ENG221Z, ENG221H

6. One of the C-level Historical Series: ENGL20Y, ENGL20Z, ENGL221H

7. One full-course equivalent at the D-level

8. Additional full-course equivalents at least 3 of which must be at the D-level, to bring the total number of English courses successfully completed to ten (10) full-course equivalents.

COURSES NOT OFFERED 2001/2002

ECMC090Y Applied Regression Analysis
Prerequisite: ECMAC07Y or ECMAC07Y
Exclusion: ECMAC11Y
Prerequisite: ECMAC09Y & ECMAC09Y & ECMAC11Y & ECMAC11Y
ECMC190Y Empirical Applications of Regression Analysis
Exclusion: ECMAC11Y
Prerequisite: ECMAC09Y
ECMC130Y Advanced Microeconomic Theory
ECMC140Y Advanced Macroeconomic Theory
ECMC320Y Economics of the Public Sector: Interventions Exclusion: ECMAC22 (ECMC32)
Prerequisite: ECMAC01Y or ECMAC01Y or ECMAC01Y or ECMAC01Y
ECMC370Y Law and Economics Exclusion: ECMAC30 (ECMC32)
Prerequisite: ECMAC01Y or ECMAC01Y or ECMAC01Y or ECMAC03Y
ECMC250Y Labour Economics II Exclusion: ECMB02Y & ECMAC09Y (ECMAB01Y or ECMAC01Y)
Prerequisite: ECMAC01Y
ECMC320Y Economics of the Internet and E-Commerce
ECMC260Y Labour Economics I Exclusion: ECMAC09Y & ECMAC09Y & ECMAC09Y & ECMAC09Y
Prerequisite: ECMAC09Y
ECMC350Y Economic Development Exclusion: ECMAC34, ECMAC09Y
Prerequisite: ECMAC09Y & ECMAC09Y & ECMAC09Y & ECMAC09Y
ECMC370Y Development Policy Exclusion: ECMAC34, ECMAC09Y, ECMAC09Y
Prerequisite: ECMAC09Y
ECMC360Y Research Methods in Economic Policy and Data Analysis Prerequisite: ECMAC09Y & ECMAC09Y & ECMAC09Y & ECMAC09Y
ECMD050Y Workshop in Economic Research
ENGB01Y Introduction to Literary Study: The Twentieth Century
An introduction to literary and cultural concerns in the twentieth century through the study of works written in English from the beginning of the century to the present day.

ENGB112H1S Writing Workshop for ENGB11Y (Students who have successfully completed ENGB11Y prior to Winter 1999/2000 do not need ENGB112H1S to fulfill requirements for a Major Program in English.)

ENGB02Y Critical Thinking and Writing

ENGB02Y Critical Thinking and Writing

ENGB112Y Writing Workshop for ENGB11Y (Students who have successfully completed ENGB11Y prior to Winter 1999/2000 do not need ENGB112Y to fulfill requirements for a Minor Program in English.)

ENGB113Y Introduction to Literary Study: The Twentieth Century

ENGB129H1S Writing Workshop for ENGB11Y

ENGB03Y What is Culture?

ENGB03Y What is Culture?

ENGB11Y Introduction to Literary Study: The Twentieth Century

ENGB129H1S Writing Workshop for ENGB11Y

ENGB129H1S Writing Workshop for ENGB11Y

ENGB129H1S Writing Workshop for ENGB11Y

ENGB129H1S Writing Workshop for ENGB11Y
ENG1113 Twentieth Century Drama

A study of drama in English from 1880 to the present time. The course will introduce students to various dramatic genres and methods, such as realism, expressionism, modernism, etc. The focus will be on plays that have been produced on stage and in film.

ENGL130Y, ENGL338Y

P. Fallali

ENG1172 Contemporary Literature from the Caribbean

A study of fiction, drama, and poetry from the English-speaking Caribbean. The focus will be on the literature of the Caribbean and the impact of colonialism on its writers.

ENG1172

A. Purnell

ENG1183 The Short Story

An introduction to the short story as a literary form.

ENG1183

A. Purnell

ENG1183 Children's Literature

An introduction to children's literature.

ENG1183

B. A.

ENG1183 Detective Fiction

A study of the evolution and form of detective fiction.

ENG1183

B. A.

ENG1183 Contemporary Literature from South Asia

A study of fiction and poetry written in English from India, Pakistan, Sri Lanka, and the South Asian diaspora.

ENG1183

A. Purnell

ENG1183 Introduction to the Bible

A survey of the Bible and its influence on literature.

ENG1183

B. A.

ENG1183 The Bible and English Literature

A survey of the Bible's influence on English literature, and an analysis of how it has been used in modern literature.

ENG1183

B. A.

ENG1183 American Authors

A close study of works by at least four and no more than six American authors.

ENG1183

B. A.

ENG1183 The Victorian

An exploration of Victorian literature and its influence on society and culture, 1837-1901. The course will focus on the Victorian era's influence on the development of modern literature.

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ENG1183

B. A.

ENG1183 American Authors

A close study of works by at least four and no more than six American authors.

ENG1183

B. A.
include Einrich, Welch, and Silko. We will also look at classic Hollywood Westerns. 

Prerequisites: [ENG2510Y] or [ENG2505Y] & [ENG2602Y] or [ENG2510Y] & [ENG2605Y] & one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

G. Leonard

ENG2573Y Myths and History in Canadian Fiction

A detailed study of several Canadian novels in the context provided by myth and history. The course will examine the significance of myth and history in the work of several Canadian fiction writers; the function of myth in literature and in culture; the Canadian writer's relation to tradition; and the interplay between past and present. We will consider work by such Canadian writers as McCutcheon, Watson, Laurence, Kateret, Davies, Richter, Oshingko, and King. 

Prerequisites: [ENG1003Y] & [ENG2510Y] or [ENG2505Y] & [ENG2602Y] & [ENG2605Y] & one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

D. Bennett

ENG2574Y Independent Studies: Creative Writing

A substantial project chosen by the student and supervised by one faculty member. It is the responsibility of the student to locate a supervisor. 

Admission by permission of the supervisor of studies and of the instructor. Each term in this course is limited to one student at a time. For further details, contact the supervisor of studies. 

Prerequisite: [ENG2510Y] or [ENG2505Y] 

ENG2575Y Travel and Travellers in Literature and Culture from 1830

A study of a variety of fictional, semi-fictional, and non-fictional accounts of travels and travellers throughout the 19th century. 

For overseas, travel literature has been enormously popular, while travellers—whether pilgrims, explorers, or immigrants—have held a special place in society. Travel literature has been exceptionally widely read and respected, and for centuries travellers and travellers have been celebrated and admired. But the concept of individualism? What domestic preoccupations do travel and travel writing reflect? 

Checking our study with the development of mass travel in the early 19th century, we will address travel forms ranging from the forced transportation of slaves to pilgrimage to exploration and to tourism, reading works by such authors as Homer, Lucien, Meryng Kempe, Sir John Mandeville, Sir Walter Raleigh, Thomas Nashe, Lady Mary Wortley Montagu, Jonathan Swift, and John Bartram. 

Prerequisites: [ENG1003Y] & [ENG2510Y] or [ENG2505Y] & [ENG2602Y] & [ENG2605Y] & one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

S. Lamb

ENG2576Y Problems in Early Shakespeare

An examination of five or six Shakespeare plays from the period 1596-1600. These plays are considered in the light of their dramatic and dramatic antecedents, as well as in terms of the Shakespearean drama they preceded. 

Limited enrolment: 30 

Prerequisites: [ENG1003Y] & [ENG2510Y] or [ENG2505Y] & [ENG2602Y] & [ENG2605Y] & one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

A. J. Pym

ENG2578S Critical Issues

ENG2593Y James Joyce

Richard Ellmann summarized the importance of James Joyce when he said "we are still learning to live in his contemporaries." Our primary texts will include Dubliners, Portrait of the Artist as a Young Man, and Ulysses. In addition to the study of Joyce's own work, we will consider the influence of Joyce's work on later writers. In addition to the study of Joyce's own work, we will consider the influence of Joyce's work on later writers. 

Prerequisite: [ENG2510Y] or [ENG2505Y] 

ENG2596H Between Traditions and Modernism: Writing by Canadians of Asian Descent

A study of the role of writing by Canadians of Asian descent. 

As a case study, the course will focus on the ways in which writers of Asian descent in Canada—writers whose only point of commonality may well be their shared Canadian citizenship—accept and reject the shaping influence of the multiple environments in which they exist. Through term projects, students will have the opportunity to work on such questions as the influence of acquired and inherited social and artistic traditions; the effect of working with the complexity of today's media; and the roles audiences play in shaping the literary text. 

In-class texts will include books by such writers as Leo, Onitsuka, Mistry, Why, and Khun, Kongwa, Qiao, Lanham, and Vazzanti. For comparison purposes, the course will also look at one or more novels by Margaret Laurence. 

This seminar will require both individual and group work; oral and written presentations; and reading beyond texts considered in class. 

Limited enrolment: 20 

Prerequisites: [ENG1003Y] & [ENG2510Y] or [ENG2505Y] & one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

A. Brown

ENG2693H Senior Essay

A scholarly project, chosen by the student and supervised by one faculty member. 

Approval by the faculty in English must normally be obtained by the student before the end of the previous spring term. 

The student writes a substantial essay on a literary subject under the supervision of a member of staff. It is the responsibility of the student to locate a supervisor; advice on this matter may be sought from the Discipline Representative. The following deadlines should be observed by the last day of the previous spring term a brief statement of the area of the project, signed by the supervisor, should be submitted to the Discipline Representative. It must cover 15 pages. A specific statement of the project is to be submitted, including the exact topic proposed, a preliminary description of the subject and method. After the topic has been approved by the discipline, a second reader will be appointed. 

Exclusion: [ENG1415Y], [ENG4950Y] 

Prerequisite: [ENG1003Y] or [ENG2510Y] or [ENG2505Y] or [ENG2602Y] or [ENG2605Y] or one other full-course equivalent in English] or [three full-course equivalents at the B-level, one of which must be in English] 

M. Crevier
Environmental Science

(B.A., B.S.)

Faculty List
R. B. Bryan, B.A. (Dublin), Ph.D. (Sheffield), Professor
N. Eyles, B.Sc. (Leicester), M.Sc. (Memorial University NL, Q.C.), Ph.D. (East Anglia), D.Sc. (Leicester), Professor
B. Greenwood, B.Sc., Ph.D. (Brunei), Ph.D. (Home Counties (Uxbridge), Professor
R. F. Howard, B.Sc., M.Sc., Ph.D. (Birmingham), Professor
V. Timmer, B.Sc., M.Sc., Ph.D. (University of New Brunswick), Ph.D. (Concordia), Professor
J. A. Wragge, B.Sc. (Reading), Ph.D. (Aberystwyth), Professor
D. D. Williams, B.Sc. (University College, North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D., M.B., (Wales), D.Sc. (Wales), Professor
R. R. Pullhouse, B.Sc., M.Sc. (Toronto), Ph.D. (Carleton), Associate Professor
W. A. Gough, B.Sc., M.Sc. (Toronto), Ph.D. (McGill), Associate Professor
A. G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor
A. M. More, M.Sc. (Florida State), Ph.D. (London), Adjunct Associate Professor

Discipline Representative:
A. G. Price (416-287-7327)

Supervisor of Students:
W. A. Gough (416-287-7245)

Co-op Coordinator:
R. Loudon (416-287-7246)

The Co-operative Program allows students to take any one of three special streams in Environmental Science. Each of these streams has a strong basis in the fundamental sciences such as biology, chemistry, mathematics and physics, but emphasizes the environmental science such as geography, geology, atmospheric sciences and ecology. The Program is, therefore, designed for the practical environmental scientist and including study in the theoretical aspects: Environmental Impact Assessment, Remote Sensing and Geographical Information System, Scientific Computing, Statistics. One of the thrusts of the specialist Program is in the importance of field and laboratory work, which allows students the opportunity to develop skills which are directly useful in the work place.

The three work placements are integral to the Co-op experience; students will be required to undertake 16-week periods of work placement in positions fitting their interests and skills and future employment intentions. Assistance will be provided by the Co-ordinator in securing appropriate placements.
To maintain standing in the Program, to be eligible for a work term and to receive special certification upon graduation, a student must:

- maintain a cumulative grade point average of at least 2.5
- complete an introduction to Environmental Science Co-op tutorial in first year
- receive a satisfactory evaluation for the work term performance and work term reports
- be registered as a full-time student during study terms
- return to study after each work term.

For Program outline, please refer to the description of the Specialist Program in Environmental Science below. Note that while it is strongly encouraged, courses need not be taken in exactly the indicated order, but if an alternative ordering is adopted, care must be taken to ensure that pre-requirements are satisfied and conflicts avoided.

NOTE: Each student's program requires the annual approval of the supervisor of studies. Students are individually responsible for ensuring that they have completed all Program and degree requirements for graduation.

Introduction to Environmental Science Co-op

During their first year, students will participate in a co-op tutorial. This is designed to prepare students for their co-op term experience and is crucial for ensuring that students get the most benefit from their co-op placement training opportunities. The tutorial will cover a variety of topics that will help students to develop the skills and tools they require to secure placements that best match their interests. Students will gain insights into the industry as well as research opportunities. The tutorial will consist of presentations, hands-on activities, and group exercises. This tutorial is an integral part of the full-course degree requirement. There are no additional fees associated with this tutorial.

Successful completion of this tutorial is a prerequisite for the co-op work term (COP030H1).

COP030H1 Environmental Science Co-op Work Term

Work terms are an integral part of the co-op program. Practical work experience in a related field is gained with study terms to enhance academic studies and develop professional and personal skills. Work term reports are required at the completion of each work term. Consideration is given to a student's ability to meet both the academic and work term requirements. To be eligible for a work term, students must be in good standing and must have completed at least 7.5 FCE. Students are expected to work a minimum of 20 hours per week. Work term credits are in addition to the 20 full-course degree requirements and are graded on a Credit, No Credit basis. There are no additional course fees for work terms.

**SPECIALIST PROGRAM IN ENVIRONMENTAL SCIENCE**

**Advisor:** W. Gough (416-287-7245)

This Program requires a minimum of 14.0 FCE. It is designed to provide students with a strong foundation in environmental science and a broad range of opportunities in a variety of fields. Students will develop skills in critical thinking, problem-solving, and communication, and will gain an understanding of the challenges and opportunities facing our planet. The Program is offered in both the fall and winter terms.

**Environmental Geoscience Stream**

**Advisor:** D.D. Williams (416-287-7245)

Total requirements: 11.0 FCE.

**Year 1:**
- EES100H Introduction to Environmental Science
- EES106H Introduction to Planet Earth
- CHMA02Y General Chemistry
- PHY108H The Physics of Classical Systems
- COP030H1 Environmental Science Co-op Work Term
- and MATA26Y Calculus or MATA26Y
- MATA26Y Introduction to Mathematical Modeling

**Year 2:**
- BOY850Y Ecology and Evolutionary Biology
- CIC120H Introduction to Scientific Computing
- STAR22H Environmental Chemistry
- and 2.0 FCE's from the following:
  - EES200H Principles of Sedimentology and Stratigraphy
  - EES202H Principles of Geomorphology
  - EES203H Principles of Climatology
  - EES204H Principles of Hydrology
  - EES205H Principles of Soil Science
  - EES206H Earth Materials

- EESC303H Remote Sensing and Geographic Information Systems
- EESC304H Biodiversity and Biogeography
- EESC307H Environmental Impact Assessment and Auditing
- EESC305H Research Seminar
- and 5.0 FCE's from the following:
  - EESC301H Marine Systems
  - EESC302H The Great Lakes

- EESC311H Urban Environmental Problems of the Greater Toronto Area
- EESC306H Contaminant Hydrogeology
- EESC308H Climate Change
- EESC309H Research Project in Environmental Science
- EESC310Y Research Project in Environmental Science
- EESC311H Process Hydrology
- and 1.0 FCE. from any other EES courses

**Environmental Science Stream**

**Advisor:** D.D. Williams (416-287-7243)

Total requirements: 13.5 FCE.

**Year 1:**
- EES100H Introduction to Environmental Science
- EES106H Introduction to Planet Earth
- CHMA02Y General Chemistry
- PHY108H The Physics of Classical Systems
- COP030H1 Environmental Science Co-op Work Term
- and MATA26Y Calculus or MATA26Y
- MATA26Y Introduction to Mathematical Modeling

**Year 2:**
- BOY850Y Ecology and Evolutionary Biology
- CIC120H Introduction to Scientific Computing
- STAR22H Environmental Chemistry

Environmental Science

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Admission to the Program

Applicants may apply to the Program directly from secondary school or may apply as transfer students from college or an equivalent university. The timing of work placements for students who receive transfer credit will depend upon the particular university courses completed.

Applicants must indicate the special code for the University of Toronto at Scarborough Program on the Application for Admission to an Ontario University. Once the University of Toronto is notified of the application, candidates are sent information on how to download the co-op supplementary application form from our admissions website.

To be considered for the first round of selection, applicants must return the co-op supplementary form by March 1st; the final deadline is April 1st. Therefore, it is essential that applicants submit the initial OUAC application at least six weeks prior to these dates.

Note that enrollment in the Program is limited. Admission is considered on the basis of the applicant's academic performance, background or experience in related subjects, and a letter of reference from high school teacher or university instructor in mathematics or science. An interview is required.

Fees

Every student in a co-operative Program is required to pay additional fees as established by the University of Toronto.

**SPECIALIST CO-OP PROGRAM IN ENVIRONMENTAL SCIENCE**

This Program requires twenty FCE's (four years) of study. For students who enter the Program in 2000/2001 or after, these work terms must be completed along with the academic Program. For students who entered before 2000/2001, the requirement is two work terms, with an optional third work term with permission of the Co-op Director. To be eligible for their work term, students must be in good standing and have completed at least 7.5 FCE. Work placement opportunities are arranged by the Physical Sciences Division, but placements are by students in competition with all applicants for the positions.

Performance on work terms will be evaluated by the employer and coordinator. Students must submit a report for each work term (including a third work term if taken).
### MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE

**Advisor:** A. G. Price (444-257-3527)

**Total requirements:** 4.0 F.C.E.

The Minor Program is designed to provide insights into the basic principles of Environmental Science and its application to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. It is appropriate for students pursuing a three-year degree in science or those pursuing a four-year degree in the social sciences or in management and economics.

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<th>Year 1</th>
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<td>CSCA57H Introduction to Scientific Computing</td>
<td>EESS01H Introduction to Environmental Science</td>
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<td>EESS06H Principles of Climatology</td>
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<td>Environmental Chemistry</td>
<td>Environmental Science and Society (not less than 2.5 F.C.E.)</td>
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EES3065H Introduction to Planet Earth
The composition, structure and origin of the Earth and the physical and biological processes that operate in and on it; the history of the Earth as revealed in the rock record.
The flows of energy and mass through natural systems, and the impact of human activity on system processes, with particular reference to land use change, soil degradation and atmospheric pollution.
Two hour lecture every week and a two hour practical every other week. Exclusions: EES140H, EES240H, GEOG320, GGR100, GEOG110, 140, 141, PG150 R. Dykstra, A. Price

EES2915H Principles of Sedimentology and Stratigraphy
An analysis of the range of sedimentary environments found on planet earth and their stratigraphic record over the last 500 million years. Techniques for describing and dating sedimentary units will be demonstrated using local field excursions. Of interest to students in life and physical sciences.
Two hour lecture every week. Exclusions: GLA200, GLG100. Prerequisites: EES100H, EES103H M. Styles

EES2915H Principles of Geomorphology
The physical and chemical processes responsible for the development of regolith at the surface of the earth and the mechanics of movement, transport and deposition of mass by rivers, wind, glaciers, waves, and gravity. Some of these processes are also responsible for the formation of landforms. Two hour lecture every week and a two hour practical every other week. Exclusions: GRC200, GRC300, GRC206. Prerequisites: EAS101H or EAS108H (EAS108H) or GEOG409, GEOG208, GEOG109, GEOG219. GEOG200 C. Sudicky, A. Price

EES2915H Principles of Hydrology
The study of the occurrence and movement of water in the environment. Water is essential for life on earth. Hydrological processes are responsible for the development of landscape characteristics, the formation of rivers and lakes, and the production of groundwater. Two hour lecture every week and a two hour practical every other week. Exclusions: GRC200, GRC300, GRC206. Prerequisites: EAS101H or EAS108H (EAS108H) or GEOG409, GEOG208, GEOG109, GEOG219. GEOG200 C. Sudicky, A. Price

EES2915H Principles of Soil Science
A study of the processes of pedogenesis and the development of diverse soil profiles, their relationships and adaptation responses to changing environmental conditions. An examination of the fundamental soil properties of importance in soil management. An introduction to the techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Two hour lecture every week and a two hour practical every other week. Exclusions: GGC200, GGC205. Prerequisites: Any A-level course in Environmental Science or IDS500H E.B.A.

EES2915H Deformation of Earth Materials
Local, regional and plate tectonic stresses; earth material deformation and failure.
Principles of geomaterials; geotechnical influences on rock behavior; controls on important earth processes such as folding, faulting and mass wasting. Geological structures observed at field sites or in Ontario and interpreted from geological maps, reveal the history of earth movements in the area. Insights into how earth materials might behave in the future under changing stress conditions.
Two hour lecture every week. Prerequisites: EAS101H or EAS108H (EAS108H) R. Elsworth, J. Stanchan, J. Weisz

EES2915H Earth Materials
Introduction to minerals and rocks, including their physical and chemical properties, classification, origins and uses. Laboratory exercises will emphasize examination and identification of minerals and rocks in hand specimens. Two hour lecture and two hour practical every other week. Exclusions: EES211H & EES212H. Prerequisites: EAS101H & EAS104H. J. Weisz

EES2915H Remote Sensing & Geographical Information Systems Fundamentals of GIS and remote sensing: spatial data types, data capture, data input and output formats, georeferencing and coordinate systems, topology, spatial analysis techniques, remotely sensed image analysis and map production. Applications of GIS technology to "real-world" situations in both regional and global environmental problems using multiple datasets will be demonstrated. Extensive hands-on experience with GIS software (ArcView, Windows; Grass - Unix; IDRISI-DOE) and various hardware devices (e.g., digitizers, plotters, etc.) Two hour lecture and two hour practical every week. Prerequisites: EAS104H & 1.5 FCE's in B- or C-level EES courses. M. Dougherty

EES2915H Biogeography and Biodiversity Theoretical and practical aspects of the diversity of animal form and function, together with examination of the distribution patterns of representative taxa. This course will familiarize students with the diversity of animal life and how this is organized for scientific study. Much of the course will be concerned with invertebrate animals, as it is amongst these phyla that the vast majority of the structural and functional diversity of organisms lies. Information on important animal groups and their evolution will be set in the context of past and present global distribution patterns. Coverage will begin with consideration of the evolution of Diversity in a functional context. Subsequent topics will include the major groups (marine and terrestrial), continental drift, dispersal, endemism, concepts of abundance and rarity, comparison of the biotic richness of continents and islands, and the fundamental influence of climate. Important biological processes to be studied will include adaptation, speciation, coexistence and extinction. The course will conclude with discussion of the invasive role of man in shaping modern biogeography. Two hour lecture and three hour practical per week. Exclusion: BIOC329. Prerequisites: GCTN 380Y (BIO310Y) or EAS302H & any 3 FCE's in B- or C-level Biology or Environmental Science courses. D.D. Williams

EES2915H Groundwater Groundwater represents the world's largest and most important fresh water resource. The purpose of this course is to introduce students to the various aspects of groundwater and to help them develop a background in these areas. Emphasis is placed on the practical methods of resource exploration and management; examples of the approaches are given for aquifers under environmental stress in northern Canada and sub-surface water in the US and Africa. Four hour lecture per week. Prerequisites: EAS104H and 1 FCE in B-level EES courses. K. Howard
Environmental Science

EESC1300 Environmental Impact Assessment and Auditing
To familiarize students with the relevant legislation, qualitative and quantitative approaches and applications for environmental impact assessments and environmental auditing. The focus will be on the assessment of impacts to the natural environment, however, socio-economic impacts will also be discussed.

Environmental auditing and environmental certification systems will be discussed in detail. Examples and case studies from forestry, wildlife biology, and land use will be used to illustrate the principles and techniques presented in the course.

Students will acquire "hands-on" experience in impact assessment and environmental auditing through case studies.

Exclusions: CCR593, INT220, GEG414
Prerequisites: 2.5 F.C.E. of EES courses or permission of the instructor
D. Davenport

EESC1301 Research Seminar in Environmental Science
Concepts and methods developed in Environmental Science will be applied to practical environmental problems, within the framework of individual or group projects, a research proposal and a research seminar will be produced. The course is also designed to encourage interaction between students from diverse streams of environmental science through participation in joint seminars with faculty and with environmental practitioners from the community.

Three hour lecture per week.

Presented: Prof. Pat Douglass, Coordinator
Coordinator: B. Greenwood

EESC1401 Field Camp I
Designed to familiarize the student with field work in the Earth Sciences; many environmental problems can only be assessed by collecting geological and other data in the field.

This course is designed for students in the Environmental Science or Geology programs, but students in other streams may register.

The course is divided into two parts: a 10-day trip to the southeastern United States in the month of May or June (May 20-30) and a 10-day trip to Costa Rica in the month of August (August 5-15). The course will be offered in consultation with EESC1407 and EESC3401.

The camp will be held in alternate years in Costa Rica or Armenia (May) or in the Rocky Mountains (September).

Prerequisites: EESC1401, EESC1403, EESC1404, and permission of the instructor.
N. Kolesnik, R. Howard

EESC1400 The Great Lakes: A Lacustrine System
North America is endowed with eight of the twelve largest fresh-water lakes in the world. The hydrodynamics and hydraulics of the Canadian Great Lakes are used as examples from large lacustrine systems. Fundamental concepts in physical limnology are related to features found in the Great Lakes. Topics include: classification and origin of lakes, temperature structure, seasonal circulation, food budgets, Langmuir circulation, storms, waves and water levels. Morphological forms and morphodynamical behaviour as a result of sediment transport process are examined particularly with respect to coastal processes. Specific anthropogenic influences will be illustrated using case studies from the local environment. Field excursions will be an integral part of the course.

Two hours of lecture and two hours of laboratory per week.

Exclusions: EESC2054
Prerequisites: EESC2054
Recommended Course: EESC3003, EESC3001

EESC2050 Soil Erosion Control
Primarily for students with a good background in Environmental Science. Fundamental theoretical understanding of the processes of soil erosion by wind, water and gravity. Prediction of soil erosion response to natural and anthropogenic changes in the controlling environmental factors. Detailed instruction in soil erosion control methodology and the development of soil erosion control strategies. Emphasis is on the organization of group research exercises utilizing laboratory techniques and field practical training in research methodology. Experience in using the latest methods for soil erosion control.

Two hour lecture every week and a two hour practical every other week.

Exclusions: EESC1210
Prerequisites: EESC2040 or EESC2030
Recommended Course: EESC3002

R.B. Bryson

EESC2053 Urban Environmental Problems of the Greater Toronto Area
Urban areas such as the GTA are the focus of many acute environmental problems such as the disposal of solid and hazardous waste and the contamination of soil, air and water by industrial activity. Specific cases of such problems drawn from the GTA will be reviewed, with reference to field investigations, environmental audit, the diligence and liability, and remedial solutions.

Two hour lecture and one hour tutorial per week.

Exclusions: NIH42, RSCE20
Prerequisites: 1.5 F.C.E.'s in any of the Environmental Science Programs, or permission of the instructor.
L. Reschke

EESC2052 Microbial Biogeochemistry
Microorganisms are central to the movement and fate of organic and inorganic chemicals in the environment, nutrients and contaminants alike. This course will look at the transformational capabilities of microorganisms and the features of their physiology and their natural habitats that make these capabilities possible.

Topics will include waste treatment, pesticide degradation, composting, carbon sequestration and release, trace metal cycling and contamination, immobilization, bioremediation, and the mechanisms and rates of microbial evolution. Emerging environmental technologies based on micro-organism biotechnological processes will be examined, including bio-stimulation, bio-electrochemical, metal recovery, bio-plastics production, single cell protein production will be introduced.

Exclusion: BOY225
Prerequisites: CHMA20 and BOY330
R. Fulbrooke

EESC2051 Contaminant Hydrogeology
Natural hydrochemical processes; the role of major ions, minor ions, trace metals and environmental isotopes in studying the occurrence and nature of ground water flow. Flow and non-flow processes of ground water contamination and the mechanisms of contaminant transport.

Two hour lecture and two hour practical course per week.

Exclusion: GL202
Prerequisites: EESC1210 or [EESC2074 & CHMA2121], or [MATH114 & CHMA2212 or CHMA2111]
K. Howard

EESC2050 Climate Change
Climate change is still a focal point from a paleoclimatic perspective by examining the climate record and the potential feedbacks explaining climate variability. Orbital forcing, changes in the ice sheets, and the Gaia hypothesis are critically assessed. The second approach is to examine the simulation of climate change, particularly anthropogenically induced change. Potential impacts of global warming are explored.

Two hour lecture and one hour practical per week.

Exclusion: GGR200
Prerequisites: EESC3003, GGR3000
W. Gough
French

(F.A.)

Faculty List
- C. Bertrand-Jones, L. B. (Paris)
- V. Brown, Professor Emeritus
- B. Doutou, B. A. (London), Ph.D.
- S. Miller, M.A. (Toronto), Ph.D.
- J. Naylor-Jones, M.A. (Montreal-Laval), Ph.D.
- K. McCulloch, M.A. (Toronto), Ph.D.
- P. Roberts, M.A. (Toronto), Ph.D.
- F. Maguire, M.A. (Lyon), Ph.D. (Gimbalne), Senior Lecturer

Discipline Representative: J. Naylor-Jones

COURSES NOT OFFERED 2001/2002

EESD110 Introduction to Geophysics Exclusion: EESD110 Prerequisite: ESS0404H or ESS100H or permission of the instructor

EESD120 Marine Systems Exclusion: EESD120, GRO236 Prerequisite: ESS080H

EESD130 Process Hydrology Exclusion: EESD130 Prerequisite: ESS0404H

EESD140 Remediation of Terrestrial and Aquatic Environments A study of the ways in which hazardous organic and inorganic materials can be removed or attenuated in natural systems. The theory behind various technologies, with an emphasis on interdiscipliary interpretation and their success in practice. An introduction to the unique challenges associated with the remediation of surface and ground water environments, soils, marine systems, and contaminated sediments. Two lab lectures, and one hour lecture per week.

Prerequisites: ROA047Y & EESD044H & EESD204H & CMB105H

French 89

"Immerse" or "learnable" high school experience, or who have native or near-native fluency in French, should consult the faculty member responsible for FREN10 or FREN100 about the appropriate entry course(s). Students without OAC French or equivalent are urged to obtain credit for FREN11 (the equivalent of FREN100). Note that the Language Practice courses A10, B10, and C10 must be taken in sequence. Normally, an A-level FREN course should not be taken at the same time as, or after, a B-level FREN course. Please do not hesitate to consult Program Supervisors and other faculty members for further advice about course selection and progression.

The College's Study Abroad Program offers ideal opportunities for students of French to earn academic credit while studying in another province or country. For further information about this Program and about Letters of Permission, please refer to "Study at Other Universities" in this calendar, and speak to our Supervisor of Study Abroad.

Students with OAC French who took Summer University Program courses prior to attending U of T must see the Supervisor of Study Abroad during the first week of classes. After assessing the courses, the Supervisor of Study Abroad will advise the student as to the appropriate level in which to register. Failure to seek advice at that time may result in a loss of credit which the student is entitled to.

Students must consult the Supervisor of Study about possible exclusions if they are considering registering in French courses in the Faculty of Arts and Science (GB, George or Freeland campuses). Failure to do so may leave the student short a course for degree credit and thus delay graduation and increase tuition fees.

Note that two of our courses (FREN83 & FREN84) are conducted in English; readings and assignments for these courses are done in French. French students, however, are encouraged to take the above courses as a French Program, and in English by those with good English toward a degree.

SPECIAL PROGRAM EDUCATION IN FRENCH PROGRAMS

Co-ordinator: F. Maguire

This four-year Program is designed and offered jointly by the Division of Humanities, University of Toronto at Scarborough, and the Ontario Institute for Studies in Education / University of Toronto (OISE/U) in order to meet the need for teachers of French at all levels in the Ontario educational system. The Program is dual junior/intermediate and intermediate/advanced. It provides students with the prerequisite knowledge needed to continue their studies at the Faculty of Education (OISE/U).
as for anyone broadly interested in the teaching of French as a second language. Emphasizing both content and methodology, it includes academic courses in French and other subjects as well as practicum placements.

Students are admitted to the Program on the basis of their overall performance in first year and their performance in FRC courses. Students who successfully complete this Program of studies and who meet the admission requirements of the Ontario Institute for Studies in Education / University of Toronto (OISE) will be admitted to that institution. Up to 20 students will be selected for this Program each year. Several bursaries are available for study in France or Quebec.

Students in this Specialist Program must complete a total of 25 courses chosen from the two main categories below:

A. Ten full-course equivalents in French as follows:
   1. Three full-course equivalents consisting of FRC105Y, FRC106Y and
      FRC107Y (except when substitution of other French courses is permitted for students with special proficiency in the French language).
   2. Two full-course equivalents selected from the following: PREB148H, PREB149H, PREC246H, PREC247H, PREC248H, PREC249H
   3. One full-course equivalent selected from the following: PREB228H, PREB227H, PREB229H
   4. Three full-course equivalents in literature which must include: one full-course equivalent in French literature; one full-course equivalent in French literature (FRC250Y can fulfill this requirement), and one full-course in French literature from other parts of the French-speaking world including France and Canada. (Note: French courses must be in English in French cannot count towards this requirement)

B. Ten further full-course equivalents:
   Students are advised to choose courses to suit the teaching Program and the teaching subjects in which they are interested. Information and advice will be available through the Program Coordinator at Scarborough and through counselling at teachers' colleges. Students in education/University of Toronto (OISE).
   The following are recommended as general preparation for the Ontario Institute for Studies in Education/University of Toronto (OISE), British Program:
   - a half-course in educational psychology
   - a half-course in language acquisition - LIN220H and LIN221H are recommended
   - a half-course to develop computer skills.

Program Requirement
   All Program requirements are stated, in years 3 and 4, to spend a minimum of one half-day per week engaged in a supervised classroom teaching experience. This experience will allow students to put into practice their understanding of the French language, teaching methods presented in PREB111 and PREC111. University of Toronto at Scarborough, in association with the Ontario Institute for Studies in Education/University of Toronto (OISE), will arrange these practicum placements in local elementary and secondary schools.

MAJOR PROGRAM IN FRENCH

Supervisor: S. Miliot

The major Program in French provides a simple structure that students can readily customize to meet their needs. The Supervisor of Studies welcomes opportunities to help students tailor this flexible Program to match their strengths and goals.

Students must complete seven full-course equivalents in French, including:
1. FRC105Y and FRC107Y (except when substitution of other FRC courses is permitted for students with special proficiency in the French language).
2. One further full-course equivalent in language.
3. One full-course equivalent in literature and/or culture.

Program Requirement:
   students must choose one of the following courses:
   FRC250Y, B237H, B238H, B239H, B240H, B241H, B242H, B243H, B244H, B245H.

The additional full-course equivalents in French:

   Students may create a "classic" major in French Studies with a language and literature focus by including FRC249H and one and a half-course equivalents in literature in their Program.

   Those wanting a major with a business focus should include one full-course equivalent from (FRC210H - FRC225H) at least.

   FRC210H - PREC210H as well as FRC181H and FRC182H in their Program.

   University of Toronto at Scarborough (PREA101 is also a prerequisite for PREB33, PREB35, PREB36 and PREB38 for students enrolled in a French Program).

   Exclusion: Native or non-native proficiency in French; FSL161Y, FSL182H, FSL183Y

   Prerequisite: FRC301H or Grade 13 French or equivalent.

   M.R. and S.G.

   Offered: 2001/2002

PREB179H Conversation 1

Development and reinforcement of spoken language skills.

Through discussion groups, interviews, role-playing and other controlled situations, oral work, students will be familiarized with elements of vocabulary, syntax and grammar fundamental to routine facility in oral communication. Topics of conversation will focus on contemporary and daily life. Part of the course is devoted to the improvement of pronunciation and listening comprehension. Participation will be encouraged in use of methods of self-help wherever possible.

Exclusion: Native or non-native proficiency in French; FSL161Y, FSL163Y or equivalent.

Prerequisite: Grade 13 French or equivalent.

S. Milot

Offered: 2001/2002

PREB200H Practical Translation

Texts from fields such as literature, business, politics, law, science and technology, art, and advertising will be translated, analyzed, and discussed in terms of type of language and style of expression. Class time is devoted to improving the students' proficiency, based on the many types of differences between French and English.

Exclusion: FTR470, FTR480, FTR481

Prerequisite: PREB179H or equivalent.

P. Roberts

Offered: 2001/2002

PREB197Y Language Practice II

A continuation of PREB197Y.

The course is concerned with the development of fluency, accuracy of expression, and style, through the study of grammar, composition, oral practice, reading, and writing. Course work can be supplemented by audio and videotapes.

Exclusion: FRC249H, native proficiency in French; FSL201H, FSL202H

Prerequisite: PREB197Y or equivalent.

A. Chabot

Offered: 2001/2002

PREB103Y Language Practice I

Reinforcement and development of the language skills—understanding, reading, writing, and speaking—necessary for higher-level courses.

The course consists of a grammar review with written and oral exercises, reading and discussion of a variety of texts representing different Francophone cultures and whatever exercises class and instructor may choose to devise. The class meets 3 times a week and, in addition, will do a fourth hour of speaking and listening with recorded materials. This course is a prerequisite for all B-level courses in the French discipline at University of Toronto.
FRE81196 French Language Learning In the School System
This course is offered by the Ontario Institute for Studies in Education at the University of Toronto in conjunction with the Division of Humanities, University of Toronto at Scarborough, and is intended for students considering a career in French language teaching. It involves a series of seminars conducted in French as well as preparation for practical work which will take place in local elementary and secondary schools throughout the duration of the course. The course should ideally be taken immediately after admission to the Education of Teachers in French Program.
Prerequisite: FRE810Y or equivalent
F.R.A.
Offered: 2001/2002

FRE81197 Dialogue I
Intensive practice in the spoken language through controlled situational oral and discussion groups. Attention will be given to the comprehension of such major regional variants as those found in the province of Quebec. As many opportunities as possible will be provided to practice the language and develop a mastery of relevant vocabulary so that students may acquire a reasonable degree of confidence when speaking about everyday life and contemporary topics.
Enrollment Limit: 50
Exclusion: FSL247
Prerequisite: FRE810Y or equivalent
S. Mitter
Credit for FRE81197 is also available in the summer under Study Elsewhere.
Offered: 2001/2002

FRE81193 Commercial French
The French language is a commercial or economic context. This course is of interest to students in French, Business Administration, Computer Science, Economics and Management, and to all who wish to improve their skills to prepare for entry into a specialized area of the job market. Class meetings will be devoted, among other things, to comprehension work and to exercises that include the vocabulary and structures involved in the language of business as practiced primarily in the Canadian francophone business community.
Exclusion: FSL246
Prerequisite: FRE810Y, or permission of the instructor
J. Nదd��ngtngtng
Offered: 2001/2002

FRE82730 20th-Century France
An examination of political, social and cultural developments in France in the last hundred years. Topics will include the impact of the two World Wars, the de-industrialization process, France and its relations with North America, the European Community and the Third World, the mass artistic and intellectual currents, the media, the educational system, etc. This course is designed to interest both specialists and non-specialists.
Exclusion: FRE8271
Prerequisite: FRE810Y or equivalent, or permission of instructor.
F. Magnier

FRE82830 The Francophone World
An examination of historical, political and cultural realities in the French-speaking West Indies, Europe, Africa and South-East Asia. Topics to be discussed will include slavery, colonialism, decolonization and multilingualism. Artistic and intellectual developments will be studied, based on written and audio-visual material. The course is designed to interest both specialists and non-specialists.
Exclusions: FRE8271, 250
Prerequisite: FRE810Y or equivalent, or permission of instructor.
F. Magnier

FRE83540 Francophone Literature
A study of a variety of literary texts from the French-speaking world, excluding France and Canada. Attention will be given to the cultural and historical background as well as to the close study of works from areas including the West Indies, North and West Africa. Exclusion: FRE343
Prerequisite: FRE810Y or equivalent
Co-requisite: FRE8350 or (FRE830)
F. Magnier

FRE84640 Introduction to Linguistics:
French Phonetics and Phonology
An examination of the sound system of modern French, using speech materials of diverse regional and socio-economic groups throughout the francophone world.
The course will acquaint students with acoustic phonetics and the basic concepts and features of the French phonetic system. Phonological interpretation of phonetic data will be discussed. Periodic features such as stress and innovation will be examined in their various functions. Some classes will be conducted in the language laboratory located in Blades Library. This course is a complement to FRE84849.
Exclusions: FRE8257, FRE2270Y, FRE375H
Prerequisite: FRE810Y
K. McCutlin
Offered: 2001/2002

FRE84849 Introduction to Linguistics:
French Morphology and Syntax
An examination of the morphology and syntactic structure of modern French. In comparison with English, we will study how French words are formed as well as the constituent parts of sentences both simple and complex. Questions of grammatical relationship such as agreement, subordination, co-ordination and inversion will also be studied. This course is a complement to FRE84446.
Exclusion: FRE8257, FRE272
Prerequisite: FRE810Y
J. Nదd��ngtngtngt
Offered: 2001/2002

FRE890Y3 Introduction to Literature in French
A study of representative works from major periods and areas of the literature of the francophone world.
FRE850Y will introduce students to the thoughtful reading of literary texts in French. Students will be encouraged to acquire the basic vocabulary and techniques necessary to analyze literature in the three genres and to develop their essay-writing skills in French. This course is recommended for all students intending to major or specialize in French as a useful background for more advanced studies and for those students interested in enhancing or retaining their reading, writing, and speaking skills in French.
The class will meet for three hours each week for lectures and discussions conducted in French.
Exclusion: FRE540
Prerequisite: FRE810Y or equivalent
F. Magnier
Offered: 2001/2002

FRE8981H3 Translation for Business and Professional Needs
A continuation of FRE818, devoted to the study of the French language in a commercial, professional, and technical context.
Through in-class practice in translation from French to English and English to French, students will have the opportunity to widen their knowledge of the language and structures particular to the language of business as well as to such fields as legal services, social work, health care, industrial relations, computer and software.
Class work is directed toward increasing the student's facility. Evaluation will be based on class participation and a series of in-class evaluations.
Exclusions: FGR440, FGR441
Prerequisite: FRE818 or FRE818H or equivalent
S. Mitter
Offered: 2001/2002
MINOR PROGRAM IN GEOGRAPHY
The requirements for this Program are four full-course equivalents in Geography which must include one full-course equivalent at the C-level or D-level. GEOA11, GEOA13, GEOB20, and IDES20 may be counted towards the requirements of this Program.

S06A03Y Global Processes and Environments
An introduction to the patterns, processes, and relationships that underlie current global trends. This course examines theories and methods that can help us to understand the environmental, economic, and social changes that flow from globalization, and how these affect the quality of human life and of environment at many scales. Emphasis will be placed on the sustainability of these changes. Two-hour lecture and one-hour tutorial.
Exclusions: (GEOG404), GEO107
M. Bunch, Ralph

S06A03H Geographic Information Systems (GIS) and Empirical Reasoning
This course is divided into three sections. In the first section, students review notions of theory and model, dependence and causation, induction and deduction, ex ante or ex post, and the roles of space, place, location, and metric in our understanding of social processes. In the second section of the course, students are introduced to basic geodatabase, the structuring of spatial data, data sources and their geographic interpretation, GIS components, social and applications, spatial data transfer, and data accuracy. In the third section, students learn about empirical methods in spatial analysis and exploration.
Two hours of lectures per week.
Exclusion: This is a first course in GIS. Students may not enroll in this course if they have already completed any other university-level course in GIS. e.g. ECON3, GEO372
J. Miron

S06E01H Environmental Conservation
The history and current status of environmental problems and conservation responses. The course deals with two main topical: the origins of environmental problems in the rise and subsequent globalization of capitalism, and environmental conservation, movements, and policies. Emphasis is placed on changes in human-environment relations, trends in environmental problems, the rise of environmental awareness, ideologies of preservation and conservation, environmental activism and organizations, environmental policy from the local to the international scale, problems of sustainable development, two hours of lectures per week.
Exclusions: (GEOB211), (GEOB231)
Prerequisites: (GEOA11) and one other A-level course (IDEA01 is strongly recommended)
J. Miron

G06B05H Urban Geography
This course will develop understanding of the geographical nature of urban systems and the internal spatial patterns and activities in cities. Particular emphasis is placed on the North American experience, although some examples will be drawn from other regions of the world. The course will explain the location and growth of cities, explore the internal organisation of cities, especially with regard to residential, social and economic activities, and shed light on the major issues and problems facing contemporary urban society.
Two hours of lectures per week.
Exclusion: GEO124
Prerequisites: (GEOA01) or (GEOB01) or alternative prerequisite with permission of the instructor.
T.B.A.

G06B09H Planning in Canada
After reviewing the history of urban and regional planning in Canada, this course considers alternative ideologies, models of public choice, the role of the planner, the instruments of planning, tools for the analysis of planning, and planning in the context of the space economy. This course provides an understanding of planning as a currently principled, and introduces students to the principal tools used by planners.
Two hours of lectures per week.
Exclusion: (GEO334)
J. Miron

G06R01H Real Estate and the City
Cities exist, grow and prosper (and perhaps even decline) in part because of the way that they are organized to facilitate and regulate the operation of real estate markets. This course explores relationships between aspects of the real estate market (e.g. ownership, appraisal, appraisal, demographics, density, etc.) and financial, political, social, and environmental consequences. The course covers concepts related to a real estate market, real estate investment, real estate valuations, leases, purchase and sale agreements, and urban economics. Two hours of lectures per week.
Exclusion: (GEO334)
Prerequisites: One of (ANTO5), ANTO5, IDSSH1, IDES20, IDES21 (these courses may be taken as co-requisites). M. Bunch

G06R04H Current Topics in Human Geography
Examination and discussion of current trends and issues in human geography, with particular emphasis on recent developments in concepts and methods. Specific content will vary from year to year. Seminar format with active student participation.
Two hours of lectures per week.
Limited enrollment: 20
Exclusion: (GEOA13)
Prerequisites: (GEOA40) and one B-level full-course equivalent in Human Geography T.B.A.

COURSES NOT OFFERED 2001/2002
G06C04H Urban Residential Geography
Exclusion: GEO357
Prerequisite: University-level half-course in data analysis and one of (ECBM11), (ECBM12), (ECBM20), (ECBM21), (ECBM30), (ECBM31), (GEOB05), (GEOB06), (GEOB07)
J. Miron, J. Miron
C06C07H Cultural Geography
Prerequisites: GEO001, GEO002, or GEOB01, and one of (GEOB05), (GEOB06)
J. Miron
C06C07H Urban Political Geography
Exclusion: GEO339
Prerequisite: GEO305
J. Miron
C06C08H Urban Transportation Policy Analysis
Exclusion: GEO334
Prerequisite: University-level half-course in data analysis and one of (ECBM11), (ECBM20), (ECBM30), (GEOB05), (GEOB06), (GEOB07)
J. Miron, J. Miron
C06C08H Greater Toronto Area
Prerequisite: GEO305
J. Miron
C06C09H Social Geography
Prerequisite: GEO305 or another Social Science or Women's Studies B-level course with permission of the instructor.
German (B.A.)
No German language courses are offered on this campus. Students interested in pursuing studies in the German language and culture should consider the Felsyln of Arts & Sciences at the University of Toronto (B. German Culture and Italian Culture)
Health Studies (B.A.)

Faculty List
J. Boddy, B.A. (McGill), M.A. (Calgary), Ph.D. (UBC), Professor
F. Bunce, B.Sc., M.A. (NTU), Ph.D. (CUNY), Professor
S. Horton, B.A. (Cambridge), M.A. (Ph.D. (Harvard), Professor
M. Lambeek, B.A. (McGill), M.A., Ph.D. (Michigan), Professor
L. Sawchuk, B.A., M.A. (Montreal), Ph.D. (Toronto), Associate Professor

Health Supervisor: L. Sawchuk (416-287-7245)
E-mail: sawchuk@scu.utoronto.ca

Health is an extremely important area of study, both from the perspective of science and social and behavioural sciences. Social scientists consider a wide range of questions, such as: how can health systems and public policy be designed as to improve health? How does individual behaviour affect health? How do health and health needs vary over the lifecycle and between men and women? What can be learned from large scale survey data about health patterns? This program groups together relevant courses from a range of disciplines, of interest to students who may apply to graduate programs in health or work in health and related professions. The Program is intended to be combined with a major in a relevant discipline.

MINOR PROGRAM IN HEALTH STUDIES

Students must complete four P.C.E. as follows:

HITA43H3 Plagues and Peoples
International Health Policy Analysis
Canadian Health Policy

And 2.5 P.C.E. chosen from the following list (which must include at least 0.5 P.C.E. at the C or D level):

ANTB15Y3 Biological Anthropology

Societal and Cultural Anthropology

ANTB25H3 Health and Sex Urban Environment

The Anthropology of the Body

ANTC35H3 Medical Anthropology: Illness and Healing

in Cultural Perspective

ANTC31H3 Medical Anthropology: Biological and

Demographic Perspectives

The Anthropology of Food: Human Needs

ANTC45H3 The Anthropology of Food: Consumer Passions

Ethnoscience

ANTC45H3 Foundations of Epidemiology

HITA31H3 Directed Readings in Health Studies

and Institutions

HITA45H3 Directed Readings in Health Studies

HITA4SH3 Human Biology

LCSA31H3 Special Topics in Women's Studies and

Gender Issues (if offered as women and health)

HITA41H3 Directed Readings in Health Studies (reading course)

HITA41H3 Plagues and Peoples

Considers the origins, antiquity and impact of plague on human societies (e.g., the Black Death, Tuberculosis and poverty complex, Cholera and sanitary movements, Black Death Fever and the price of trade, theQuiet Epidemics of sexually transmitted diseases). Such epidemics of infectious diseases have dramatically influenced the course of human history and continue to exact a huge toll on human life. The course will encompass cultural, evolutionary, epidemiological and ecological themes. An exploration of models and general principles of infectious disease or "plagues" will be followed by an examination of specific "plagues" as a means of examining

the bio-social and environmental contexts within which epidemics arise and the ways in which they transform societies. Consideration will be given to historic, contemporary and newly-emerging infectious epidemics, with a view to understanding why "plagues" emerge and how their occurrence is intrinsically linked to human behaviour.

Two hours of lectures per week.
Exclusion: BGYC30H3

L. Sawchuk

HITA49H3 Directed Research on Health Services and Institutions

Provides students with the opportunity to analyze work of health institutions. Students taking this course will arrange, in consultation with the instructor, to work (usually as a volunteer) in a Health institution. They will write a major research paper related to some aspect of their experience. They will build on material learned in IDS300H4 and complement work in POLC35H. Students must obtain consent from the Supervisor of Studies and supervising instructor before registering for this course.

Prerequisite: HITA31H3 & IDS300H4 & permission of the instructor

Co-requisite: POLC35H is recommended

HITA49H3 Directed Readings in Health Studies

For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students in their final year of study at the College. Students must obtain consent from the Supervisor of Studies and supervising instructor before registering for this course.

Prerequisite: HITA49H3 & IDS300H4 & POLC35H & permission of the instructor

Members of Faculty

G. Gervais, M.A. (Palmer), Ph.D. (Toronto), Professor
J. F. Robertson, Ph.D. (McGill), Ph.D. (Toronto), Professor
L. J. Abraham, M.A. (McGill), M.Phil., Ph.D. (Yale), Associate Professor
F. Acron, M.A., Ph.D. (York, Canada), Associate Professor
J. L. Pearl, M.A., Ph.D. (Northwestern), Associate Professor
A. N. Nolin, M.A., Ph.D. (Toronto), Associate Professor
A. M. Blakes, B.A. (Oxford), Ph.D. (American University), Associate Professor
S. J. Rockie, M.A., Ph.D. (Oxford), Assistant Professor

Discipline Representative: Until June 30, 2001
M. E. Eustace (416-287-7143)
July 1, 2001 to June 30, 2002
J. R. Robertson (416-287-7146)

The study of History is intended to enhance our understanding of human society by examining the experiences of particular peoples and their societies in the past. Its findings depend upon the precise evaluation of specific evidence. History's concerns and goals are humanistic; its methods draw from all forms of scholarly endeavour. History courses, therefore, can play a part in a number of interdisciplinary programs and can serve as an adjunct to courses in politics, philosophy, literature, economics, sociology, and anthropology. History can also be usefully combined with language study.

The History curriculum combines a variety of approaches and teaching in order to satisfy a number of purposes. HIS392Y provides both a general introduction to the study of history at the university level, and the preparation for further studies in World History. A series of survey courses (HIS3020-09) provides a comprehensive foundation of knowledge in particular areas. In upper-level courses students investigate more specific areas, periods, or problems. Dissertations courses are conducted as seminars. In these students make close and thorough studies of particular questions and present their findings in departmental and major essays. There are courses at all levels in the following areas and periods of history: Medieval Europe, Modern Europe, British, Canada, America and the United States, Rome, Ancient Greece and Rome, Africa, Asia, and Latin America.
SPECIALIST PROGRAM IN HISTORY

Supervisor: A.N. Sheppard (416-287-7133)

1. Course of Study

Students must complete at least two full-course equivalents in History. These two
must include HIS387Y (or HIS397Y) and five upper-level full-course
equivalents (C- level courses on the
Scarborough Campus, 300/400 level
courses on the St. George Campus). At
least one of the five must be a D-400-
level course.

2. Pre-1815 Course

Of the ten at least two full-course
equivalents must deal with the period
prior to 1815.

3. Areas of Study

a. Students are also required to take
courses in at least three different
disciplines of history from the following
groups:

   I: Canadian
   II: American
   III: Medieval
   IV: European
   V: African, Asian, and Latin
       American
   VI: Ancient Greek and Roman

b. Students must complete at least one
course in Canadian History.

MINOR PROGRAM IN HISTORY

Supervisor: A.N. Sheppard (416-287-7133)

Students must complete four full courses or the equivalent in History, of which at least
one full-course (or two-half courses) must be
at the C- and/or D-level.

NOTE: Students are advised to consult the
program for C-level and D-level courses
when planning their individual Programs.

HIS2A3Y The Twentieth Century World
An introduction to world history from the
age of imperialism to the modern day, emphasizing
both the diversity and the commonality of the
different human experiences.
Major themes will include: imperialism and
decolonization, social and political
organization, demography, technology
and the economy, and the role of
art and science, international relations and war.
Exclusion: HIS101
S. Rockett

HISB2Y3 Britain from the Eighteenth Century to the Present

An examination of the political, social,
economic, and religious forces which transformed
an agrarian economy into an
industrial power, and of the reasons for
the decline of British power in the twentieth
century.
Exclusion: HIS223

HIS25Y3 History of the United States

Major themes from the Revolution to the
present.
This course will focus on such questions as
independence, political organization, political
parties, territorial expansion, nationalism and
secession, reform movements, the slavery
and civil rights question, the response to
industrialization, progressivism, and the
United States as a world power.
Exclusion: HIS271
American Area
A.N. Sheppard, M. Blake

HISB0Y3 Canadian History

The history of Canada from the earliest
European contacts to the present.
Topics studied include: exploration and
settlement; the institutions and life of New
France; the British Conquest and its results;
consequences of the American Revolution;
British settlement; Confederation and the
constitution; changing patterns of
immigration; the impact of two world wars;
the Great Depression of the 1930's;
Americanization and regionalism; roots of
the current crisis in relations between
English-speaking and French-speaking
Canadians.
Exclusion: HIS250, 261, 262, 263
Canadian Area
C.R. Robertson

HISB0Y3 Europe in the Middle Ages

A chronological survey of economic,
political, religious, and social developments
in Western Europe (including Britain) from
the late Roman period to the eighteenth
century.
The object of this course is to familiarize
students with the foundations of Western
society as it evolved in conjunction with the
early settlement, colonization, and
subsequent exploration of Europe. Particular
attention is paid to the peculiar circumstances
which determined national boundaries and
which led to the divisions and conflicts of the
modern world, and (ii) to the origins and
development of our own
religion, legal, educational and political
institutions.
Exclusion: HIS220
Pre-1815 credit
Medieval Area
W. Grovener, T.A.

HISB0Y3 Russia from the Sixteenth Century to the Present

The Russian people, state, and culture,
with emphasis on the major social, institutional,
and ideological changes from the sixteenth
century to the present.
Whenever possible readings will have
been selected from primary source materials
so that students will be acquainted not
only with the facts but the flavour of Russian
history. Lectures and discussion.
Exclusion: HIS250
6.5 Pre-1815 credit
European Area
E.W. Dewler

HISB0Y3 Early Modern Europe, 1450-1800

The history of Europe from the Renaissance
to the Age of Revolution.
This course covers a tumultuous three
centuries, marked by endemic violence.
While the political structures that existed by
1500 remained little changed through most of
this period, intellectual, religious and social
upheavals were constant. We will examine
economic life, social structures and
transitions to the government. The renaissance,
ownership crisis, civil war, scientific
revelation and the Enlightenment will be
discussed.
One two-hour lecture plus tutorial each week.
Exclusion: HIS240, HIS243H, HIS244H
Pre-1815 credit
European Area
J. Pearl

HISB0Y3 Modern Europe

A survey of European developments, social,
cultural, economic and political since the
French Revolution.
Major themes will include: revolution,
industrialization, nationalism, imperialism,
war, science, technology, art and literature.
Exclusion: HIS240, HIS241, 242
European Area
M. Ekeledo, T.A.

HIS20Y3 The Sexes Since 1580

An exploration of changing definitions of
femininity and masculinity from the
Renaissance to the recent past.
Topics will include changes in
expectations for men and women in their
domestic, parental, and public roles (with
the interaction of education, employment,
politics, and war), and the roles of
women in the modern world.
Exclusion: HIS210
Pre-1815 credit
European Area
J.A. Allen

HIS20Y3 Modern France 1750 to the Present

An exploration of a tumultuous two and
one half centuries.
In this period, the French experimented
with many forms of government including
monarchy, revolutionary oligarchy, empire
and democratic republics of several types.
France also underwent dramatic social
and economic change, from a hierarchical
agrarian nation to an elitist highly technological society. This process was accompanied by both civil strife and many foreign wars. One two-hour lecture plus tutorial each week.

Exclusion: HIS216Y
Prerequisite: (HIS2A01) HIS2A02 or a B-level course in History or permission of the instructor.

European Area
J. Piersi

HSC479Y5 Europe in the Enlightenment, 1700-1798
An examination of the ideals of the Enlightenment against the background of the social and political reality of Europe in the eighteenth century. Emphasis will be placed on the incongruity of theory and practice in the writings and policies of the enlightened despots. In the first term the course will focus on the ideas of the Enlightenment and the social, economic, and intellectual milieu which spawned them. In the second term the strategies of the so-called enlightened despots to apply Enlightenment ideas to the life of their states will be examined.

Lectures and Discussion.
Exclusion: (HIS2A01) HIS2A04
Prerequisite: (HIS2A01) HIS2A02 or a B-level course in European history. Pre-1815 credit.

European Area
E.W. Dowler

HSC279S Tudor and Stuart England, 1485-1660
Examined from the end of the Wars of the Roses to the Glorious Revolution, 1485-1688. This course will cover some major areas of European history—political, economic, social, and cultural patterns. Special attention will be given to four themes: the powers and personalities of the rulers; Parliament and the rule of law; the great religious crisis and its spillover into civil war; the cultural heritage. Two lecture hours and one tutorial per week.

Exclusion: (HIS2A01) HIS2A04
Prerequisite: Any B-level full-course equivalent Pre-1815 credit.

European Area
L.D. Aberny

HSC479S Revolutionary America, 1770-1975
A seminar investigating the origins, cause and effect of the American Revolution. Attention will be paid to the social and political organization of America, the political ideals of the Revolution, revolutionary changes in the new states, the significance of the Constitution, and the effect of the revolutions on Canada and Britain. Exclusion: (HIS2A01) HIS2A02, HIS2A12
Prerequisite: Any one of HIS2B01 or HIS2B04
0.5 Pre-1815 credit
American Area
A.H. Shega

HSC479Y5 Urban Lives and Urban Cultures: The American City, 1860-1900
This course examines the role of cities and urban culture in the development of the United States in the late 19th and 20th centuries. It is not the first term will examine major themes in American urban history: anti-Semitism in American culture, immigration and migration, racial and ethnic enclaves, gender and sexuality, nature in the city, transportation and communication, architecture and urban planning, "high" and "low" culture, work and leisure. In the second term we will focus our attention on the two most influential American cities of the age, New York and Los Angeles.

Exclusion: HIS2D10
Prerequisite: HIS2D01Y or permission of the instructor.

American Area
A.M. Blade

HSC443S Quebec Since 1759
An examination of the history of Quebec since the Conquest of New France. Themes will include "survival" as an issue: "nationalism" and its variants, immigration, and the relationship of the majority with minority groups. Consideration of the effect of the two world wars: the "Quiet Revolution" in the 1960's, the growth of a movement for independence. Knowledge of the French language is not required. Two lectures and one tutorial per week.

Exclusion: HIS2D10 A HIS413H
Prerequisite: HIS2B04

J.D. MacKinnon

HSC443H Immigrants and Race Relations in Canadian History
The policies of immigration, immigration policy, and race relations in Canada from the Canadian Native contact period to the post-World War II era. Organized partly chronologically and partly thematically. Lectures and reading material will be drawn from the perspectives and methodologies of the field and to the diversity of the historical experience in Canada. Immigrants I: from pioneer farmers, male workers, domestic servants, entrepeneurs, radicals, and as members of families are considered. The course highlights the experience of such groups as Canada's first peoples, the famine Irish, West Coast Asians, continental Europeans, and American and West Indian Blacks.

Prerequisite: Any four (4) F.C.E.'s Canadian Area
F. Jacques

HSC467Y3 Atlantic Canada
The Maritime provinces and Newfoundland from the origins to the present. Subjects include the following: First Nations and the Impact of European Contact; French regime and the development of a distinctive Acadian people; British settlement; responses to the American Revolution; the Loyalists; colonial economies and social structure; ethnic minorities, including Black Loyalists; literary and intellectual developments; struggles for responsible government, and its eventual loss in Newfoundland; Confederation; economic development in the late 19th century; immigration; women's history; the development of underdeveloped in the region, and the search for solutions.

Exclusion: HIS3D10
Prerequisite: HIS3D04
0.5 Pre-1815 credit

Canadian Area
J.R. Robertson

HSC619H A Social and Historical Anthropology of Africa
A study of cultural history of Ethiopia from the fourth century to the end of the nineteenth century. Particular attention will be paid to the role of the Christian Church, the nature of the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of the people to their social, economic, artistic and geographic environments.

Prerequisite: Any B-level history course or higher which considers Europe, Africa or Asia before the 20th century. HIS2B05 is highly recommended or HIS2B01. Africana, Latin American, African Area
M. Gervers

HSC544S Popular Culture in Early Modern Europe
An investigation of mentalities and society in Europe from the fifteenth to the eighteenth century. This course will explore many areas of popular society, examining how people lived, and especially what they believed in. We will look at popular religion, folklore, and witchcraft, in order to observe the interaction of the world views of different social strata. Two hours of lecture and one tutorial per week.

Exclusion: HIS1H4, (HISC74)
Prerequisite: (HIS2A01) or a B-level course in History.
0.5 Pre-1815 credit

European Area
J.L. Pearl

HSC356H Topics in Asian History
A topical study of the cultures, peoples and states of South and Southeast Asia.

Prerequisite: One F.C.E. in History, Africana, Asian, and Latin American Area
7.B.A.

HIS199H Welser Culture
An examination of the social and political foundations of "modernism," using the cultural ferment of Germany between 1918 and 1933 as a model.

Individual artists and thinkers will be considered, but the emphasis will nevertheless be on culture as a social manifestation.

Seminar
Limited enrolment: 15
Exclusion: HIS2A01
Prerequisite: HIS2A01 and one B-level course in History.

European Area
M. Elsasser

HSC399G Seeing America: Minority Perspectives on U.S. Culture, 1800-Present
This course examines United States culture from the perspectives of those perceived as members of a "minority" by the American majority for reasons of class, race, ethnicity, sexuality, or immigrant status. The class will examine how the meaning and significance of the United States has been variously constructed through the perceptions and experiences of such minorities or "Others.

Limited enrolment: 15
Prerequisite: HIS203Y and at least one other B-level course in History.

American Area
A.M. Blade
History 104

History 105

The Making of Modern Society
European Society and Culture in the Twentieth Century
Refugee Movements in the United States, 1790-1860
From New York to L.A.: The American City 1890-1990
The Crusades: II
Revolutionary France, 1789-1800

Humanities 105

The College Program in the Humanities has been withdrawn.
Every effort will be made to allow students who registered before September 1995 to complete at this campus. Please consult with the Co-ordinator in B406 (416-287-7120).

CREDIT COURSES IN ENGLISH AS A SECOND LANGUAGE

HUMA003 Writing Practicum: A Course for Non-Native Speakers of English
A supplement to HUMA103, this course is designed to provide small groups of students with intensive hands-on practice in identifying the purpose of various written assignments, choosing appropriate topics, generating, developing, and organizing ideas; and conducting research using library, computer and internet resources. Students will also be given special instruction in editing drafts for grammatical and mechanical problems. Assignments are to reflect materials and principles studied in HUMA011.
Coordinator: HUMA011

HUMA103 Current Approaches to the Academic Writing Process: A Course for Non-Native Speakers of English A study of the conventions of academic written discourse. Designed especially for learners of English as a second language, this course shows how principles of exposition and argumentation can be applied to writing in a variety of disciplines. The course highlights the importance of relevant content, coherence, and standard documentation in academic writing of various types, using samples to illustrate some of the differences between good and poor writing. Students are also introduced to different methods of conducting research, as well as ways of avoiding plagiarism in their writing.
Prerequisite: Permission of the instructor. Screening interview required, normally by August 20. Call 416-287-7142 for further details or e-mail khirst@actu.univmcm.ca
Coordinator: HUMA003

Section 1A
Offered every year

Notes:

1. Every effort will be made to allow students who registered before September 1995 to complete at this campus. Please consult with the Coordinator in B406 (416-287-7120).

2. A course in English as a Second Language is offered at this campus, providing support for students who are non-native English speakers. The course focuses on various aspects of academic writing, including exposition, argumentation, and research methods.

3. The College Program in the Humanities has been discontinued. Students who registered before September 1995 will be accommodated at this campus, with consultation recommended with the Coordinator in B406 (416-287-7120).

4. Humanities 105: This course involves an intensive study of the prehistoric secondary interpretations of the Crusades. The Crusades will be investigated in the broad context of Western expansion into the Middle East during the 12th through 14th centuries. It includes Spain and southern Europe, and North-Eastern Europe. Consideration will be given to the Western confrontation with the Moslems, and the role played by the Christian Military Orders and in political crusades in Europe.

5. Humanities 106: This course covers a variety of topics in African History, including the history of African since 1800, the African in the Twentieth Century, the Ewe of the Twentieth Century, Religious Reforms, and more.

6. Humanities 107: This course focuses on the history of the peoples of southern Africa, beginning with the hunter-gatherers and concentrating on farming and industrializing societies. Students will consider precolonial civilizations, colonialism, and white settlement, the slave trade, the frontiers, the mineral revolution, apartheid, liberation movements, and the impact of the Cold War. Social and economic change will also receive attention. Given the dynamic and conflict-driven history of the region, interpretations will have a great deal of variance.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANT310H1</td>
<td>Introduction to Anthropological Perspectives in Development</td>
<td>0.5</td>
</tr>
<tr>
<td>BGY301Y</td>
<td>First International Biology*</td>
<td>0.5</td>
</tr>
<tr>
<td>ECO3A2Y</td>
<td>Introduction to Economics: A Mathematical Approach</td>
<td>0.5</td>
</tr>
<tr>
<td>ECO3A3Y</td>
<td>Introduction to Environmental Systems</td>
<td>0.5</td>
</tr>
<tr>
<td>EEB309H1</td>
<td>Principles of Hydrology +</td>
<td>0.5</td>
</tr>
<tr>
<td>EEB310H1</td>
<td>Biotechnology - Environmental Implications +</td>
<td>0.5</td>
</tr>
<tr>
<td>EES320H1</td>
<td>Remote Sensing and Geographic Information Systems</td>
<td>0.5</td>
</tr>
<tr>
<td>EES323H1</td>
<td>Environmental Impact Assessment</td>
<td>0.5</td>
</tr>
<tr>
<td>ENS299H1</td>
<td>Soil Erosion Control</td>
<td>0.5</td>
</tr>
<tr>
<td>ENS329H1</td>
<td>Conservation and Management of World's Forests II: Global Geographies</td>
<td>0.5</td>
</tr>
<tr>
<td>IDS301H1</td>
<td>International Development Studies: Political Economy</td>
<td>0.5</td>
</tr>
<tr>
<td>IDS302H1</td>
<td>International Development Studies: Development and Environment</td>
<td>0.5</td>
</tr>
<tr>
<td>IDS304H1</td>
<td>Project Management</td>
<td>0.5</td>
</tr>
<tr>
<td>IDS305H1</td>
<td>The Twentieth Century World: Comparative Politics of Political Development</td>
<td>0.5</td>
</tr>
<tr>
<td>EES304H1</td>
<td>Hydrology</td>
<td>0.5</td>
</tr>
<tr>
<td>PHLC364H1</td>
<td>Political Analysis</td>
<td>0.5</td>
</tr>
<tr>
<td>POL390Y</td>
<td>Politics and Society in the Middle East</td>
<td>0.5</td>
</tr>
<tr>
<td>POL395Y</td>
<td>Politics and Society in Latin America</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Students are strongly advised to consult with a supervisor before registering for these courses.**
**Section II**

Students must take four and one-half full-course equivalents with at least one full-course equivalent from the following major groups:

A. Social/Cultural Perspectives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT/BH30Y</td>
<td>Ecological Perspective in Anthropology</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>The American: An Anthropological Perspective</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>African Cultures and Societies II Survey</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>Comparative Slavery</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>Social/Cultural Anthropology</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>Cultures of the Middle East and Islamic World</td>
</tr>
<tr>
<td>ANT/BH30Y</td>
<td>African Culture and Societies II Case Studies</td>
</tr>
<tr>
<td>ANT/C10H</td>
<td>Complex Societies: Anthropological Perspectives of Development</td>
</tr>
<tr>
<td>ANT/C11Y</td>
<td>Anthropology of Women and Gender</td>
</tr>
<tr>
<td>ANT/C12H</td>
<td>Economic Anthropology</td>
</tr>
<tr>
<td>ANT/C12H</td>
<td>Political Anthropology</td>
</tr>
<tr>
<td>ANT/C13H</td>
<td>Medical Anthropology: Illness and Healing in Cultural Perspectives</td>
</tr>
<tr>
<td>ANT/C14H</td>
<td>Anthropology of Food: Human Needs</td>
</tr>
<tr>
<td>ANT/C44H</td>
<td>Consumption: Consuming Passions</td>
</tr>
<tr>
<td>POL/C56Y</td>
<td>Politics and Society in the Middle East</td>
</tr>
<tr>
<td>POL/C7Y</td>
<td>Politics and Society in Latin America</td>
</tr>
<tr>
<td>POL/DE4H</td>
<td>Selected Topics on Developing States and Institutions</td>
</tr>
<tr>
<td>WST/C10Y</td>
<td>Women and Development</td>
</tr>
</tbody>
</table>

B. Policy Issues

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT/C16H</td>
<td>Quantitative Methods in Anthropology</td>
</tr>
<tr>
<td>ANT/C6H</td>
<td>Workshop in Social and Cultural Anthropology</td>
</tr>
<tr>
<td>ECON/B1Y</td>
<td>Price Theory: A Mathematical Approach</td>
</tr>
<tr>
<td>ECON/B1Y</td>
<td>Macroeconomic Theory and Policy</td>
</tr>
<tr>
<td>ECON/B1Y</td>
<td>Multi-country Economic Policy: A Mathematical Approach</td>
</tr>
<tr>
<td>ECON/C6H</td>
<td>Economic Development Policy Analysis</td>
</tr>
<tr>
<td>ECON/C6H</td>
<td>Economics of Small Enterprise and Micro-Credit</td>
</tr>
<tr>
<td>POL/C4H</td>
<td>Project Management</td>
</tr>
<tr>
<td>POL/C5H</td>
<td>Ethics of Development</td>
</tr>
</tbody>
</table>

### MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES

**Supervisor:** P. Kington

Students must complete 4 F.C.E.'s for the Minor Program in International Development Studies, as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINOR/1Y</td>
<td>Introduction to Economics: A Mathematical Approach</td>
</tr>
<tr>
<td>MINOR/1Y</td>
<td>Introduction to Economics</td>
</tr>
<tr>
<td>MINOR/1H</td>
<td>International Development Studies: Political Economy</td>
</tr>
<tr>
<td>MINOR/1H</td>
<td>Introduction to Environmental Science</td>
</tr>
</tbody>
</table>

The Major and Minor Programs in International Development and Environmental Studies provide students with a comprehensive understanding of the economic, social, and environmental challenges facing the world today. By integrating theoretical knowledge with practical skills, these programs prepare students for careers in international development, non-profit organizations, government agencies, and environmental consulting firms. The curriculum emphasizes interdisciplinary approaches, allowing students to develop a broad perspective on global issues. Students will gain insights into the complexities of development and environmental sustainability, preparing them for leadership roles in addressing these challenges.
International Development Studies

extinction, loss of agriculturally productive land, declining water quality, decreased access to energy and climate change. In addition, as settlement of marginal lands continues, human welfare is more and more threatened by "natural" hazards, such as earthquakes, floods, droughts and events such as El Nino.

Two hours of lecture per week and a one two-hr tutorial per week.
Prerequisite: ESGA013

IDS080H3 International Health Policy Analysis
Introduces health policy analysis in developing countries, drawing comparisons to the industrialized countries. The course examines trends in the financing and provision of health care, and discusses some of the choices involved (primary health care versus curative care, private versus public provision, and issues of equity and efficiency). Case studies of models of health care will be examined for example, China, China, Canada. Participants will also obtain experience of some practical tools of health policy analysis, such as cost-benefit and cost-effectiveness analyses.
Two hours of lecture per week.
Prerequisite: 3.0 F.C.E.

IDS081H3 Economics of Small Enterprise and Microcredit
Considers the role of small enterprises in developing countries, particularly microenterprises, as an important source of income and employment. Focuses on various types of microcredit systems. This course could be counted for Program credit in ECO and ECM Programs.
Prerequisite: ECO202Y or ECO210Y, ECO220Y, or ECO230Y, or ECO240Y.
Enrollment limit: 60

COP700F3 International Development Studies Course Work Requirement Term
The IDS work placement is an integral part of the COP-5 curriculum and is designed to provide students with practical hands-on experience of the development process in a Third World field setting. Students are placed as interns in Canadian or local development agencies or universities in a developing country for a 10-12 month period. Students are required to submit progress reports every 2 months and begin work on a major research project based on their work placement experiences. To be eligible for placement, students must have completed 14.5 full-course equivalents including 12 IDS credits. These 12 must include 10 credits from sections A and B (of which at minimum 7.5 must be from Section A) plus regional and language requirements. The IDS work placement normally begins after the third year of study and requires a minimum of 2 years of residence in the Program. Course credit of 0.5 full-course equivalent is granted for each four-month work period. Work term credits are in addition to the 20 full-course degree requirement and are graded a Credit, No Credit system. There are no additional course fees for work terms.

IDS083H3 Project Management I
A study of the phases of project management cycle with emphasis on situational analysis and identification of needs, project implementation, project monitoring and evaluation.
Project management will be considered in the context of the mission and Program activities of international development agencies. Students will be familiarized with basic organizational development theory and the various approaches of Canadian Non-Governmental Organizations (NGO's) engaged in the delivery of development assistance. The integration of gender and environmental issues into the project process will be discussed.
CIDA's policies and practices governing programming will be reviewed as well as its project management model will also be examined. Students will carry out field visits to local development NGOs to analyze the project approach used by the agency. Practicing professionals will also be invited to talk about development issues and project management.
Three hours of lecture per week and a one hour tutorial per week.
Prerequisite: IDS080H3 & IDS082H3

IDS084H3 Directed Research on Canadian Institutions and International Development
Introduces students to the role of Canadian institutions (both non-governmental organizations and private agencies) working in international development. Students taking this course will arrange, in consultation with the instructor, to work (unpaid) for a year (or more) in a Canadian institution. They will write a major research paper related to some aspect of their experience. The course will be used and apply some of the techniques and skills taught in IDS083H3. Students must obtain consent from the Supervisor of Studies before registering for this course.
Prerequisites: IDS080H3 & IDS080H3 & permission of the instructor
Comiposite: IDS080H3 recommended

IDS085H3 Project Management II
A case study approach which builds on concepts and methodologies introduced in Project Management (IDS083H3). International projects will be explored from the concept stage through to project evaluation. Topics to be examined and developed will include: the use of effective communication and negotiation; visioning; participatory and rapid rural appraisal; survey design and implementation; advanced financial management and budgeting; basic bookkeeping and spreadsheet design and use; advanced environmental impact assessments; gender and development; cross-cultural effectiveness and results-based management; ethics in development and corporate social responsibility and codes; credit and microcredit project design; and human resources management. Management and implementation regimes of NGO's, development banks, bilateral donors, and international research agencies will be examined. Guest lecturers by individuals directly involved in the roll and development industries and sectors will be used to supplement and complement regular lectures and tutorials.
Enrollment limit: 60
Prerequisite: IDS084H3 or permission of the instructor

IDS086H3 Media and Development
Critical perspectives on the effects of traditional and "new" media on development policy and practice.
Whether during the meetings of the World Bank and the IMF, discussions surrounding the future of Canadian foreign assistance, or the actual implementation of development policy, the media plays an increasingly significant role in the development process. This course seeks to critically examine this role. It will begin by analyzing the emerging structure and role of media in the global arena. It will follow with an examination of the ways that media-generated images of development and development policies affect the formulation and implementation of development policy. Events studied will include the Bangladesh cyclones, the Ethiopian drought, and the

Zimbabwean land grabs. Issues examined will include female genital mutilation, water scarcity, and the role of World Trade Organization. The course will conclude with an analysis of the potential that "new" media can have for those who are marginalized from the development process. Material for the course will include academic writings and media texts from newspapers, magazines, and film. Assignments will include a critical and comparative assessment of reporting on a particular development issue and a major research essay.
Two hour class meeting each week.
Enrollment limit: 35
Prerequisite: IDS080H3

IDS0870H3 Issues in Rural Development
An examination of the special problems of rural communities and regions and associated developmental issues and strategies in the context of both industrialized and developing regions of the world. Particular attention will be paid to the impact of urbanization and globalization on rural economies, societies and environments, to the underlying structural causes of rural marginalization and to the changes in rural development paradigms over the past fifty years. Following a general overview of these themes, students will have the opportunity to study selected issues in group workshops and individual research projects. Although the final choice of issues will be made by students, it is expected that issues will include problems of agricultural restructuring, sustainable resource management, depopulation and emigration, women in rural development, community-based and grass-roots development, and sustainable rural development strategies, the role of development NGO's, and tourism and rural development.
Two hour class meeting each week.
Prerequisites: IDS080H3, IDS082H3. Students in the Development Studies Program admitted with permission of the instructor.

IDS088H3 Economic Development
An introduction to the processes of growth and development in less developed countries and regions. Topics include the role of international trade and investment in developing countries, the problems of population growth and unemployment, inequalities in income distribution, the roles of agriculture and history. This course can be counted for credit in ECO and ECM Programs.
Enrollment limit: 60
Prerequisites: ECO202Y or ECO210Y, ECO220Y.
Satisfaction for requirements: ECO202Y or ECO210Y.
1. Applying in 2001
University of Toronto at Scarborough

Students who have successfully completed at least 4 full-course equivalents and applicants transitioning into 2nd year from elsewhere in the University of Toronto or from another institution may apply for admission to the Program for the fall of 2001 by requesting an application from the Office of the Chair of the Division of Social Sciences. Other students may apply for admission to the Programs commencing 2002.

2. Applying in 2002 and Later Years
As of the 2002 admission cycle, applications from secondary school, from elsewhere in the University of Toronto or from another institution may be applied to the Program directly by indicating it on the OUAC application form.

Once the University of Toronto is notified of the application, candidates are sent information on how to download the co-op supplementary application from our admissions website. To be considered for the first round of selection, applicants must return the co-op supplementary form by March 1; the final deadline is April 7. Therefore, it is essential that applicants submit the initial OUAC application at least six weeks prior to these deadlines.

Students who are not admitted directly to the Program may apply for admission as long as they have attained 4.0 P.C.E. at the University of Toronto at Scarborough.

Fees
Every student in a Co-Operative Program is required to pay Co-op fees as established by the University.

Work Placement
To be eligible for the first work term, students must have completed at least 3 P.C.E. including 5.0 P.C.E. at a University of Toronto at Scarborough student. Work placement opportunities are arranged by the Program Co-coordinator, but must be seen by students in consultation with all campuses for the position. Performance on work terms is evaluated by the employer and the co-coordinator. Students must submit a report for each work term.

To maintain standing in the Program, be eligible for a work term, and to receive the co-op certification upon graduation, a student must:

- Be proceeding to complete the requirements for a four-year (20 credits) degree
- Maintain a cumulative grade point average of at least 2.5
- Receive a satisfactory evaluation for work term performance and work term reports
- Be registered as a full-time student during study terms
- Return to study after each work term
- Register in, and complete the requirements of, another Major Program so as to fulfill the requirements for a four-year Honors degree.

COSC210H International Studies Co-op Work Term

Work terms are an integral part of the co-op concentration. Practical work experience in a related field is alternated with extended terms to enhance academic studies and develop professional and personal skills. Students are advised to bring available for work terms during fall and winter may increase the variety of work available, and this in turn may vary the amount of work available, and this in turn may require students to take courses during at least one summer session. Course fee of 0.5 P.C.E. is granted for each 16-week placement. Work term credits are in addition to the 20 P.C.E. required to complete degree requirements, and are graded on a Credit/No Credit basis. There are no additional course fees for work terms.

Prerequisite: Open to students enrolled in International Studies Co-op Major Program.

MAJOR PROGRAM IN INTERNATIONAL STUDIES

The Program requires the completion of 8 P.C.E. as follows:

Core Courses
ECON210Y International Economics for Management Students
POLS20Y International Relations
ISTB10Y International Studies and International Organizations

ISDS20H International Development Studies

ICSE207Y Project Management I

HRM20Y 1 or 2 P.C.E. in language (ICSA20H or CECASA* or VPA20H)

Stream 1: International Culture and Communication Skills (ICSA20H or CECASA*

* One additional P.C.E. in language (up to 2 P.C.E. in language can be counted for the Program)

** P.C.E. regional courses to be approved by Supervisor: suitable courses exist in many Humanities and Social Sciences disciplines)
Language Studies

Language Studies (B.A.)

Students interested in language studies should consult with the French and Spanish Language Coordinators.

SPECIALIST PROGRAM IN MANAGEMENT AND FRENCH

Registration in this Program is limited. Please refer to the Management section of the Calendar for details.

The Management and Humanities Divisions have co-operated to develop a joint Program in Management and French. The Management requirement for any of these Programs is the first five requirements for the Specialist in Management.

Language requirements consist of five full-course equivalents as follows:

- French
  - FRE 101, 102, 103 (equivalent from FRENCH 100, 101, 102)
  - FRENCH 200
  - At least two full-course equivalents from FRENCH 202, 203, 204, 205
  - At least one full-course from FRENCH 210, 222, 223, 230

- An additional half-course in French

Major Programs

See entries under French for the major Program in French.

Minor Programs

See entries under French for the Minor Program in French.

Linguistics (B.A.)

Faculty List

R.D. Bierck, B.A. (CUNY), M.A., Ph.D. (Chicago), Professor
E.A. Cooper, B.A. (McGill), A.M., Ph.D. (Brown), Associate Professor
D.M. James, B.A. (UBC), M.A. (Carleton), Ph.D. (Michigan), Associate Professor
R. Smyth, B.A., B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor

Discipline Representative: R.D. Bierick

SPECIALIST PROGRAM IN PSYCHOLINGUISTICS

Students must complete twelve full-course equivalents, as follows:

- 1 LIN204Y: General Linguistics
- 2 PSY101Y: Introduction to Psychology
- 3 LIN204Y: Phonetics: The Study of Speech Sounds
- 4 LIN206Y: Practical Language Analysis: Morphology
- 5 LIN206Y: Practical Language Analysis: Syntax
LIN1089D Phonetics: The Study of Speech Sounds
The physiological and acoustic bases of speech. An examination of the means by which speech sounds are produced, and of the physical properties of those sounds. Emphasis will be placed on practical considerations as phonetic transcription. We will discuss material from the prescribed readings and problems which are to be solved.
Exclusion: LIN223H
Prerequisite: LIN101Y
T.R.A.

LIN1171D The Structure of English Sentences
Description and analysis of various aspects of the structure and grammar of English sentences, with emphasis on these distinctive and characteristic features most of interest to teachers and students of the language.
Exclusion: LIN107Y, LIN102Y & LIN226H
Prerequisite: LIN101Y
T.R.B.

LIN1189D The Structure of English Words
Description and analysis of the structure of English words, including the sound and word structure systems, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.
Exclusion: LIN107Y, LIN226Y & LIN230H
Prerequisite: LIN101Y
T.R.B.

LIN2239D Sociolinguistics
The study of the relationship between language and society, with the goal of understanding language form and structure through its social functions. Topics include: speech varieties within a language and their social determinants, e.g., regional dialects, social dialects, speech styles, and age-based registers; the role of speech variables as symbols of group affiliation; the social origins of linguistic change; attitudes towards linguistic variables and the social consequences of such attitudes.
Exclusion: JAL324H
Prerequisite: LIN101Y
D.M. James

LING349D Reading and Writing in a Second Language: Theoretical and Pedagogical Issues
An examination of theoretical, pedagogical and research issues related to reading and writing in a second language.
Students will need to have completed LIN390 or an equivalent course in basic syntax to succeed in this course.
Exclusions: LIN327, LIN376
Prerequisite: LIN101Y or FRE252Y & [PLU300H or FRE341H or FRE352Y] or alternative prerequisite with permission of the instructor.
T.R.A.
Management
(B.B.A.)

Faculty List
S. Bucia, B.A. (Harvard), M.P.P. (Kennedy School of Gov't.), Ph.D. (Cambridge)
I. Debellis, B.A., M.A., Ph.D., (Toronto) Professor
D. W. Lang, B.A., M.A. (Wenley), Ph.D. (Toronto) Professor
I. Avraamidi, M.Sc., Ph.D. (Moscow Institute of Physics & Technology) Associate Professor
J. Wan, B.E. (Harbin Inst., China), M.B.A. (York, Canada), Ph.D. (Toronto) Associate Professor
J. Xie, B.E. (Shanghai Inst., China), M.B.A., Ph.D. (Concordia, Associate Professor)
S. Law, B.A. (Calgary), B.S. (Wilson College), M.S. (Brockton) Assistant Professor
C. Loughlin, B.Sc. (Calgary), M.A., Ph.D. (Queen's) Assistant Professor
S. Ahmed, B.Com., M.A. (Ind), M.B.A. (Concordia, Senior Lecturer)
T. Limonta, B.Com. (Acadia), C.A., M.B.A. (York, Canada), Senior Lecturer
R. C. Powers, B.A. (Brandeis), M.A., B.A. (Queen's) Senior Lecturer
A. Sewingen, B.A. (Toronto), M.B.A. (York Canada), C.M.A., Senior Lecturer
C. Besaloi, B.A. (Queen's), M.A. (Stirling), M.A. (Western), Lecturer
M. Brody, B.A. (Pennsylvania), M.A. (Toronto), Lecturer
S. Daga, B.A. (Waterloo), C.A., CIA, Lecturer

Chair: S. Bucia

The design of the curriculum in Management is guided by our mission statement, which explains:

"The mission of the Division of Management at the University of Toronto at Scarborough is to provide our students with an in-depth understanding of management best practices and the ability to react and make critical decisions in dynamic environments. Our goal is to prepare students to be successful professionals in various sectors."

Our program is designed to provide students with a strong foundation in business principles and management practices. It is designed to help students develop the skills necessary for success in the business world and to be able to work effectively in teams. The program is designed to be flexible, allowing students to choose courses that best fit their career goals.

The Management program offers a variety of courses that cover different aspects of management, ranging from financial management, human resources, marketing, and operations management. Students have the opportunity to specialize in one of the areas that interest them the most.

Students enrolled in the Management program can choose from a wide range of courses that cover various topics, including business ethics, corporate social responsibility, and leadership. The program also offers courses in data analytics and decision making, which are increasingly important in today's business environment.

Graduates of the Management program are well-prepared for careers in a variety of industries, including finance, consulting, technology, and healthcare. They are also well-equipped to pursue graduate studies in business administration or related fields.

Management programs at universities are important because they prepare students for the demands of the modern business world. It is essential for students to gain a solid understanding of business principles and management practices to be successful in their future careers.

In conclusion, the Management program at the University of Toronto at Scarborough provides students with the knowledge and skills necessary to succeed in today's business environment. It is designed to be flexible and offer students the opportunity to specialize in areas of interest, making it an excellent choice for students interested in pursuing a career in business.
3. Admission after First Year
Admission of students during second year (that is, until they have completed up to 10 full courses) will also be on the basis of all grades received. Students who have completed more than ten full courses will not formally be considered for admission to the Program. Students applying at the end of first year or during the second year will be considered together for a total of approximately 80 places in the Specialist Programs.

Subject to enrolment limits, a student admitted to any of the Programs will have access to the full range of offerings in the Division. Specific Program requirements are listed below.

Guidelines for Course Selection for First-Year Students in Management Programs
Co-op B.B.A.
MOTAG, MGTROS, MGTB06, ECMAG, CSICA02 and MATA27
B.B.A., MOTA10, ECMAG, MATA27, (CSICA02 recommended, MGTB02 and MGTB06 allowed)

Taking a course in the Humanities or Social Sciences in first year is recommended.

Guidelines for Course Selection for Students Admitted to Pre-Program
Read the information sent with the offer of admission. Must have at least 4 C.P.R.'s to apply to Programs. For B.B.A. consideration, enroll in MOTA10, ECMAG, MATA27, (CSICA02 recommended but not required to apply to Program).

Taking a course in the Humanities or Social Sciences in first year is recommended.

SPECIALIST (CO-OPERATIVE)
PROGRAMS IN MANAGEMENT
Co-ordinator: R. Richard (416-287-1712)
E-mail: ricard@eco.utoronto.ca
Supervisor of Students: Until June 30, 2001
Andrew Stanwixh (416-287-7351)
E-mail: stanwixn@eco.utoronto.ca
July 1, 2001 to June 30, 2002 – T. Lativish
E-mail: lalivish@eco.utoronto.ca

The Management Co-operative Program is a week-study Program which combines academic studies with work experience in public and private enterprises. Students learn through both studies and practical experience.

Co-op students will follow the course requirements specified in the Specialist in Management Program which is described later in this section.

Full Year/Triennium Programming
The Management Co-op Program operates on a trimester schedule, featuring three terms (fall, winter and summer) in each calendar year. Students work or study in all three terms for four years or until graduation requirements are met.

Admission to the Co-op Program
Students should also refer to additional detailed information about admissions to Programs in this division presented earlier in this calendar section. Once the University of Toronto is notified of the application, guidelines are sent to the applicant on how to download the co-op supplementary application from our admissions website. To be considered for the first round of selection, applicants must return the co-op supplementary application by March 1; the final deadline is April 1. Therefore it is essential that applicants submit the initial OUCAP application at least six weeks prior to these dates.

Note that enrolment in the Program is limited. Admissions are granted on the basis of applicants' interest and potential ability in Management, and accomplishment and grades in both verbal and quantitative studies.

Fees
Fees for a student in a Co-operative Program is required to pay additional fees as established by the University.

Work Terms
This Program requires eight four-month terms of study and three work terms over a four-year period. In the winter of the first year, students normally begin with three to five study terms (fall, winter and summer), then alternate study and work terms, and conclude with a final eight-months of study. Work terms are arranged and coordinated by the Co-operative Program Co-ordinator but must be won by students in competition with Co-operative students from this and other Universities.

During work terms students gain experience in a wide range of departments within government, business enterprises or public agencies. Depending on their needs and abilities students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy and strategic planning.

Curriculum
In the first two years of study all students follow a common core of studies (please refer to the detailed requirements in the Management Program). Students are advised to consult regularly with the Program Supervisor in course selection and scheduling. It is however the student's individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed Program and degree requirements for graduation.

To maintain standing in the Program, to be eligible for a work term, and to receive specialist certification upon graduation, a student must:

- maintain a cumulative grade point average of 2.50
- receive a satisfactory evaluation for work term performance and work term reports.

To compete for a work term a student must be in good standing in the Program and must have completed

- for the first work term: seven full-course equivalents, including ECMAG, MOTA02, MGTROS & MGTB06 & CSICA02 & MATA27, and the Introduction to Management Co-op Tutorial
- for the second work term: nine full-course equivalents
- for the third work term: eleven full-course equivalents

Introduction to Management Co-op Tutorial
During their first year of registration in the Program, students will participate in a co-op tutorial. The tutorial is designed to prepare students for the co-op work terms experience. Presentations, group exercises and individual assignments will prepare students for the placement process, and help them to develop the skills necessary to identify and secure placement most suited to their goals and interests. The tutorial is taken in addition to the 20 full credit degree requirements. There are no additional fees associated with the tutorial. However, the successful completion of the tutorial is required before students commence work terms.

Evaluation of work term
Performance on each work term is evaluated by both the employer and the Co-ordinator. Students must submit for evaluation a report for each work term which integrates knowledge gained during the work term with academic study already completed.

Course credit of 0.5 full-course equivalent is granted for each four-month work period. Work term credit (COPCH2) is an addition to the 20 full-course degree requirements and are graded on a credit, no credit system. There are no additional fees for work terms.

SPECIALIST PROGRAM IN MANAGEMENT (B.B.A.)
Supervisor: Until June 30, 2001
Andrew Stanwixh (416-287-7351)
E-mail: stanwixn@eco.utoronto.ca
July 1, 2001 to June 30, 2002 – T. Lativish
E-mail: lalivish@eco.utoronto.ca

This Program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics.

The Program requires the completion of the following minimum requirements as part of a twenty-four course degree (14 full-course equivalents):

NOTE: A single course may only be used to fulfill one of the following requirements:

1. MOTA02, MGTROS, MGTB06, MGTB16, MGTB13 and MGTB24 and MGTB29, MGTROS, MGTROS,
MGTROS, MGTROS, MGTROS
2. at least 0.5 C.R.'s of coursework spanning at least one semester, chosen from MGTROS, MGTROS,
MGTROS, MGTROS, MGTROS, MGTROS
3. ECMAG, ECMAG2, ECMAG3
4. ECMB1, ECMB12 and 1 C.R.'s of E-158, special studies course, A-level Economics for Management Students course. A-level Economics for Management Students course is deficit in one that has a B-level prerequisite.

5. MATA27 (strongly recommended) or
MATA26
6. CSC02 students familiar with the material in CSICA02 may substitute CSICA02
7. Two-and-a-half additional full-C.R.'s from courses other than ECMB3, to include at least 1 full-C.R. from courses in the Division of Humanities.
MANAGEMENT

The Master of Management (M.B.A.) Program has the option of registering in one of the following streams. In order to have completion of the chosen stream noted on the transcript, students will have to complete at least 7.0 F.C.E.'s from a relevant set of courses noted below, as in addition to the courses required for completion of the Specialist in Management (B.B.A.), in counting courses towards the core requirements and a stream, no course will be counted for more than one requirement. Students register in only one stream of Management courses.

Accounting

Economic Data Analysis
Students must take ECON315H and ECON360H or their level ECM options within the B.B.A. Students must also take the following:
2 F.C.E.'s within ECON: ECON317H, ECON326H, ECON318H, ECON350H

Finance
Two F.C.E.'s from MGT509H, MGT510H, MGT541H, ECON481H, ECON489H, ECON526H, MGT512H, MGT511H

Human Resource Management
Two F.C.E.'s from MGT522H, MGT523H, MGT524H, MGT525H, MGT526H, ECON331H, ECON323H

International Business
Two F.C.E.'s from MGT530H, MGT531H, MGT532H, ECON318H, ECON325H, ECON346H, ECON378H

Public Management

Strategic Management

SPECIALIST STUDENTS IN MANAGEMENT AND LANGUAGE (FRENCH)

Supervisor: Until June 30, 2001
Andrew Stawinski (416-287-7351)
E-mail: stawinski@scar.utoronto.ca
July 1, 2001 to June 30, 2002 - T. Liwioz
E-mail: tlwiwoz@scar.utoronto.ca

The Management and Humanities Divisions have cooperated to develop a joint Program in Management and French. This joint Program in Management and French requires French as a first or a second language. French is mandatory and can be taken in the following semester.

The Management requirements for this Program are the same as for the Specialist in Management (follows). The French requirement is waived. Students are encouraged to take MGMT200, ECON202, CSDKA20, MATA27 and two or three appropriate courses in French in the first year.

Language requirements consist of five full-course equivalents in French, made up of:
A. Basic Language, B. Business Language and C. Civilization, as follows:

FRENCH
A. FRAD20, FRBB10, FRCE10 or equivalent
B. at least one full-course equivalent from FRBB20, FRBB18, FRBB10
C. at least one half-course from FRBB20, FRBB18, FRBB10
D. An additional half-course in FRBB

The remaining courses needed to complete the degree requirement of 20 F.C.E.'s can be chosen either within or outside the Division of Management, in accordance with the student's interest.

Financial Accounting
The College offers a significant number of courses which have been recognized as meeting part of the educational training of Chartered Accountants. Certified General Accountants and Certified Management Accountants. Appropriate C.C.A. work terms with designated C.C.A. firms will be recognized by the Institute of Chartered Accountants of Ontario as part of their internship requirement. Brochures describing the various Programs leading to the recognized University of Toronto at Scarborough courses are available from the Career Centre (416-287-7561).

MGTAD43Y Introduction to Management
Introduction to the process of management (planning, organizing, leading, and directing), the functional components of profit and nonprofit organizations (accounting, finance, marketing, personnel, etc.), and the organization's role within a societal environment. This course should be taken before any other MGT courses.

One two-hour lecture per week. Exclusions: Any other MGT course except B50 & B56 for students in Programs requiring B50 & B52 or B50 & B56 for students admitted to the Management Program directly from high school. Exclusion: MGMT100Y, MGMT101H

Preliminary: None

MGTBUS3 Management Accounting
An introduction to management and cost accounting with an emphasis on the use of accounting information in managerial decision-making. Topics include patterns of cost behaviour, transfer pricing, budgeting and control systems. Enrollment is limited to students registered in Programs requiring this course. Two hours of lecture per week. Exclusions: MGT125H, MGT223H & MGT225H, VPAB13
Preliminary: ECON410Y (ECON310Y) or ECON100Y (ECON101Y), and MGTBUS1H (MGTBUS2Y)

MGTBUS8 Financial Accounting I
Together with MGTBUS9, this course provides a rigorous introduction to accounting techniques and the principles and concepts underlying these techniques. The development of double entry theory and practice, the accounting cycle, problems of income measurement, and the preparation of financial statements are addressed from the point of view of both preparers and users of financial information. Enrollment is limited to students registered in Programs requiring this course. Two hours of lecture per week. Exclusion: MGTBUS5Y. MGT125H, MGT223H & VPAB13
Preliminary: MGTBUS1Y. Students admitted into the Management Program directly from high school and students requiring the Program degree requiring this course may take MGTBUS1Y concurrently.

MGTBUS9 Financial Accounting II
This course is a continuation of MGTBUS8 and builds on material covered in that course. In this course the student will examine a knowledge of the material taught in MGTBUS8 and be encouraged to take MGTBUS5 immediately after completing MGTBUS1Y. Technical topics include partnerships, corporations,
The objective is to improve students' personal management competencies in areas such as interpersonal relations, decision making and problem solving, motivating and leading, and teamwork. Enrollment is limited to students registered in Programs requiring this course.

Two hours of lecture per week.
Prerequisite: MGT202Y

MGT205H1
Managing Groups and Organizations
An introduction to the practical and theoretical aspects of macro-organizational behavior. Organizations are in part a integral part of our everyday lives, yet, the average person understands little about how organizations function. This course is about how organizations work, and how we can change them to make them work for us. Building on concepts and skills from MGT203 and MGT224, students will be introduced to theoretical and practical aspects of macro-organizational levels of behavior that tackle management issues at group and organizational levels of analysts. Topics covered include: organizational design, culture, and innovation, power and politics, and group dynamics and inter-group relations. Enrollment is limited to students registered in programs requiring this course.

Two hours of lecture per week.
Prerequisite: MGT203Y

MGT209H1
Principles of Finance
An introduction to basic concepts and analytical tools in financial management. Building on the fundamental concepts of time value of money, the course will examine stock and bond valuations and capital budgeting more extensively. Also covered are such topics as risk-return trade-off, financial planning and forecasting, and long-term finance decisions. Enrollment is limited to students registered in programs requiring this course.

Two hours of lecture per week.
Prerequisite: MGT209H1

MGT210H1
Managerial Skills
This course deals with the development of managerial skills. As management students enter today's complex organizations, they need managerial skills as well as knowledge of the conceptual and technical material covered by their courses. This course provides students with opportunities to develop skills related to the conceptual knowledge addressed in earlier courses.

MGT212H1
Intermediate Management Accounting
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations.

Two hours of lecture per week.
Limited enrollment: 60
Exclusions: MGT212H1 & MGT233H
Prerequisite: MGT206

MGT215H1
Intermediate Financial Accounting I
Together with MGT208, an examination of the framework of theory and practice of financial reporting in Canada. Theoretical and practical accounting and reporting issues are examined. Various topics dealing with measurement and disclosure are covered. The course builds extensively on the material covered in MGT205 and MGT206 (and, to a lesser extent, MGT203). Potential students should review thoroughly the basic accounting model, preparation of financial statements, and accounting principles prior to the start of this course.

Two hours of lectures per week and one hour tutorial per week.
Limited enrollment: 60
Exclusions: MGT211Y & MGT224H & MGT233H
Prerequisites: MGT216H, MGT210Y & MGT212H
Complements: MGT215H1 or MGT218H1

MGT216H1
Intermediate Financial Accounting II
A continuation of MGT215. It continues the students' development of skills and professional judgments through study of several complex topics. To this end, problems, cases and discussions are used in the course. Students must complete MGT217H before enrolling in this course.

Two hours of lecture per week and one hour tutorial per week.
Limited enrollment: 60
Exclusions: MGT211Y & MGT224H & MGT233H
Prerequisites: MGT215H1 or MGT218H1

MGT218H1
Intermediate Management Information Systems
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and application of data processing and information systems, with emphasis on managerial judgment and decision making.

Two hours of lecture per week.
Limited enrollment: 60
Exclusions: MGT211Y
Prerequisites: MGT215H1 & MGT224H & MGT233H
MGT216H3 Canadian Income Taxation I
This course introduces students to the Canadian income taxation system. It is designed to provide a foundation for the study of income taxation as it applies to individuals and small businesses. It covers tax law and its application to tax planning, diversity and human rights issues in the workplace, and tax planning for individuals and corporations. On completion of this course, students will be able to understand and apply the principles of income taxation to real-world situations. The course also includes a tutorial on taxation for individuals and corporations.

Limited enrolment: 60
Exclusion: MGT425
Prerequisite: MGT215H3 & MGT216H3

MGT217H3 Canadian Income Taxation II
This course reviews the Canadian income taxation system from the point of view of the tax authority. It covers the taxation of income, deductions, and taxes on capital gains. On completion of this course, students will be able to understand and apply the principles of income taxation to real-world situations. The course also includes a tutorial on taxation for individuals and corporations.

Limited enrolment: 60
Exclusion: MGT425
Prerequisite: MGT216H3 & MGT217H3

MGT218H3 Introduction to Consulting
This course introduces students to the role of a consultant in business. It covers the role of the consultant in the business world, the function of a consultant, and the services provided by a consultant. On completion of this course, students will be able to understand the role of a consultant in the business world.

Limited enrolment: 60
Exclusion: MGT217H3
Prerequisite: MGT218H3

MGT219H3 Human Resource Management
This course introduces students to the role of human resource management in the business world. It covers the role of the human resource manager, the function of a human resource manager, and the services provided by a human resource manager. On completion of this course, students will be able to understand the role of a human resource manager in the business world.

Limited enrolment: 60
Exclusion: MGT217H3
Prerequisite: MGT219H3
process throughout. Course participants will engage in the creation of a product or service, and its associated marketing plan, through an integrated World Wide Web site accessible to the laborrhatory community.

Limited enrolment: 40
Prerequisites: CSC1000H or MGTC04H

MGT0301H Market Research
A decision oriented course, designed to introduce students to the market research process. Alternative data collection, sampling, analysis, and evaluation procedures are discussed. Exploratory, descriptive, and causal research approaches are reviewed. Both theoretical and technical considerations in design and execution of market research are stressed. Instruction involves lectures and class projects including computer analysis.

Limited enrolment: 40
Exclusions: MGTC531H
Prerequisites: MGTC810H or ECOM811 and ECOM812 (ECMB8091) & MGTC04H

MGT0323H Advertising: From Theory to Practice
An introduction to the basic communication tools used in planning, implementing and evaluating promotional strategies.

The course will review the basic findings of the behavioral sciences dealing with perception, personality, psycholigical appeals, and their application to advertising as persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, audiovisual Programs and guest speakers from the local advertising industry.

Two hours of lecture per week.
Limited enrolment: 30
Prerequisites: MGTC04Y or MGTC00H or permission of the instructor

MGT0303H Advanced Financial Accounting
Considerations of accounting practice in the context of accounting theory and concepts for a number of areas including corporate investments, and foreign currency translation.

Two hours of lecture per week.
Limited enrolment: 65
Prerequisites: MGTC01H, MGTC05H

MGT0305H Auditing
An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor.

Two and one half hours of lecture per week.
Limited enrolment: 40
Prerequisites: MGTC07H or (MGTC01Y)

MGT0315H Advanced Auditing
An extension of the study of area covered in the introductory audit course. Topics will include risk analysis, statistical theory, comprehensive auditing, materiality, special reports and future external financial information. This will involve an extensive review of current articles in professional journals.

Two and one half hours of lecture per week.
Limited enrolment: 40
Prerequisites: MGTC06H

MGT0315H Auditing in a Computer Environment
An examination of the problems related to auditing computerized and generated financial data, including consideration of risks and exposures, evaluation of controls and audit strategy development. Attention will also be given to computer-assisted audit techniques.

Limited enrolment: 65
Prerequisites: MGTC06H

MGT0345H Personal Financial Management
An introduction to personal financial management.

Upon completing the course, students should be capable of not only providing advice on specific financial problems, but also developing a comprehensive personal financial plan for a typical Canadian family at a general level. Topics to be covered include goal setting, personal financial statements, debt and credit management, retirement and management of risk, investing in stocks, bonds and mutual funds, income tax, estate planning, insurance planning, retirement and estate planning.

The concepts and techniques covered in the course will benefit students in managing their personal finances, and in their future careers with Canadian financial institutions.

Teaching methods for this course will include lectures, problem solving, case studies, projects and occasional guest speakers.

Two hours of lecture per week.
Limited enrolment: 50
Prerequisites: MGTC01H or permission of the instructor

MGT0375H Advanced Financial Management
An in-depth coverage of the main topics of corporate finance.

This course reinforces and expands upon the topics covered in MGTC02H and MGTC05H. The course examines more advanced and complex decision making situations a financial manager faces in such areas as capital budgeting, capital structure, financing, working capital management, dividend policy, leasing, mergers and acquisitions, and risk management.

Teaching methods include lectures and extensive use of cases.

Prerequisites: MGTC09H

MGT0385H Investments
This course deals with fundamental elements of investments. Basic concepts and techniques are introduced for various topics such as risk and return characteristics, analysis and valuation of investments, and portfolio performance measurements.

Two hours of lecture per week.
Limited enrolment: 40
Exclusions: MGTC05H
Prerequisites: MGTC00H

MGT0395H Supervised Reading Course
This course is intended for upper level students whose interests are not covered in one of the other Management courses normally offered. The course will only be offered when a faculty member is available to supervise it and would only be available to students whose Management performance has been well above average. Students interested in this course should consult with the Supervisor of Studies for management well in advance.

Students are advised that they must obtain consent from the supervisor before registering for this course.

Prerequisites: Permission of the instructor
mechanics. In turn mathematics has provided the theoretical framework and tools in the physical sciences. In the 19th century some parts of mathematics appeared to develop away from their origins in the physical world. To the great surprise of many scientists and mathematicians, some of the "pure" mathematics has turned out to be essential in many aspects of 20th century science. Differential geometry provides the language for general relativity and cosmology, and fifteen space theory and group representations are the tools for quantum mechanics. Similarly, graph theory, combinatorics and number theory play a major role in computer science.

Please refer to the Physical Sciences Scarborough presenters on page 148 for a list of the Programs offered. Descriptions of these Programs will be found on subsequent pages of this section.

**SPECIALIST PROGRAM IN MATHEMATICS**

Supervisor: E. Moore (416-287-7257)
The Specialist Program in Mathematics is designed to give students a thorough grounding in the main areas of Mathematics, together with an understanding of the close relationship between Mathematics and other Sciences. It is aimed at students who may be interested in teaching, law, government or industry, or who may decide to pursue a career in research.

[This Program is comparable to the Specialist Program in Mathematics and Applications on the St. George Campus.]

**First Year:**
- CS338H: Introduction to Combinatorics
- MATB32H: Linear Algebra I
- PHYA1H: Principles of Classical Physics
- PHYB2H: Principles of Modern Physics

**Second Year:**
- CS338H: Fundamental Data Structures and Techniques
- MATB42H: Linear Algebra II
- MATB44H: Groups and Symmetry
- MATB45H: Optimization

**Third Year:**
- MATB5H: Graph Theory and Algorithms for Computer Science

**SPECIALIST PROGRAM IN MATHEMATICS AND ITS APPLICATIONS**

Supervisor: E. Moore (416-287-7257)
The Specialist Program in Mathematics has been withdrawn. Students currently registered in it will be allowed to complete it. Please consult with the Supervisor of Studies. Interested students should consider the Specialist Stream of the Specialist Program in Mathematics and its Applications (below).

**SPECIALIST PROGRAM IN MATHEMATICS AND ITS APPLICATIONS**

Supervisor: E. Moore (416-287-7257)

**Core for All Program Streams:**
- CS338H: Introduction to Computer Science
- CS339H: Introduction to Scientific Computing
- MATB32H: Linear Algebra I
- MATB42H: Calculus

**First or Second Year:**
- STAB1H: Statistics

**Second Year:**
- MATB42H: Linear Algebra II
- MATB43H: Techniques of the Calculus of Several Variables I
- MATB44H: Introduction to Analysis
- MATB45H: Ordinary Differential Equations

**Second or Third Year:**
- STAB47H: Introduction to Probability Theory and Mathematical Statistics

**Third Year:**
- MATB5H: Groups and Symmetry

**Fourth Year:**
- MATB47H: Complex Variables

**Computational Physical Sciences Stream:**
- ASTA0Y: Introduction to Astronomy
- PHYA2H: Principles of Classical Physics
- PHYA3H: Principles of Modern Physics
- MATB6H: Linear Programming and Optimization

**Mathematics 135**

Two of:
- MATB5H: Linear Programming and Optimization
- MATB49H: Chaos, Fractals and Dynamics
- MATB45H: Introduction to Real Analysis
- MATB45H: Differential Equations I
- MATB45H: Complex Variables II
- MATB45H: Linear Algebra II
- MATB45H: Calculus
- MATB45H: Introduction to Analysis
- MATB45H: Ordinary Differential Equations

**First or Second Year:**
- STAB47H: Introduction to Probability Theory and Mathematical Statistics
- STAB1H: Statistics
### Major Program in Mathematical Sciences

Students must choose one of the following options:

**Mathematics**
- **MATH 242** Calculus
- **MATH 243H** Linear Algebra I
- **MATH 245H** Linear Algebra II
- **MATH 247** Introduction to Computer Science
- **CSCE 243H** Discrete Mathematics for Computer Science
- **CSCE 245H** Discrete Mathematics for Computer Science

**Statistics**
- **STA 223H** Statistics

### Courses

#### Option 1: Calculus

- **MATH 242** Calculus
- **MATH 243H** Linear Algebra I
- **MATH 245H** Linear Algebra II
- **MATH 247** Introduction to Computer Science

#### Option 2: Discrete Mathematics

- **CSCE 243H** Discrete Mathematics for Computer Science

#### Option 3: Statistics

- **STA 223H** Statistics

### Notes

1. **MATH 242** can be used to satisfy the prerequisites for **MATH 243H** or **MATH 245H**.
2. **CSCE 243H** can be used as a elective course.
3. **STA 223H** can be used as an elective course.

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**Notes on Course Selection**

- **MATH 242** is recommended for students majoring in Mathematical Sciences.
- **MATH 243H** and **MATH 245H** are recommended for students majoring in Computer Science.
- **CSCE 243H** is recommended for students majoring in Computer Science.
- **STA 223H** is recommended for students majoring in Statistics.

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**References**

- [Mathematics Department](#)
- [Computer Science Department](#)
- [Statistics Department](#)
MAT2730 Introduction to Optimization
Two one-hour lectures per week and a one-hour tutorial per week.
Prerequisites: MAT23H1, MAT23H3.

MAT240H3 Techniques of the Calculus of Several Variables
A study of vector algebra in R^3, linear spaces, lines and planes in R^3, complex numbers, matrices, determinants and linear equations, functions of several variables, partial derivatives, gradients, tangent plane, Jacobian matrix and chain rule, Taylor series, extremal problems, extremal problems with constraints and Lagrange multipliers, multiple integrals, spherical and cylindrical coordinates, law of transformation of variables.
Two one-hour lectures per week and a one-hour tutorial per week.
Exclusion: MAT238Y, MAT239Y, MAT230, MAT235, MAT236, MAT237.
Prerequisites: MAT23H1, MAT23H3.

MAT242H3 Linear Algebra II
Two one-hour lectures per week and a two-hour tutorial per week.
Exclusion: MAT240Y, MAT244Y.
Prerequisite: MAT242H3.

MAT244H3 Differential Equations I
Ordinary differential equations of the first and second order, existence and uniqueness; solutions by series and integrals; linear systems of first order; non-linear equations; difference equations.
Two one-hour lectures per week and a one-hour tutorial per week.
Exclusions: MAT240Y, MAT244Y.
Prerequisites: MAT23H1, MAT23H3.

MAT251H3 Linear Programming and Optimization
Linear programming, simplex algorithm, duality theory, interior point method, quadratic and convex optimization, stochastic programming, applications to portfolio optimization and operations research.
Two one-hour lectures per week and a one-hour tutorial per week.
Exclusion: MAT251H.
Prerequisites: MAT242H1.

MAT258H3 Groups and Symmetry
Two one-hour lectures per week and a one-hour tutorial per week.
Exclusions: MAT251H, MAT253, MAT255.
Prerequisite: MAT242H1.

MAT259H3 Fluids and Groups
Introduction to affine group theory: Sylow theorems, groups of small order. Simple groups. Classification of finite abelian groups. Fields and Galois theory: Polynomials over a field, field extensions, adjunction of roots of a polynomial.

MAT329H3 Chaotic, Fractal and Dynamical Systems
Areas covered include: metric spaces, dynamics on the real line, fixed points, periodic points, attracts, repellors, Sarkovskii's theorem parameterised families of functions and bifurcations, period doubling, dynamics of the logistic
MATHEMATICS/MUSIC

map, symbolic dynamics, chaos, topological equivalence of the logistic map and the shift map, Newton's method; dynamics on the complex plane, iterations of rational functions, Julia sets, Mandelbrot set.
Exclusion: MAT123
Prerequisite: MAT43H

MAT23H2 Introduction to Real Analysis
Prerequisite: MAT24H3 & MAT43H

MAT43H4 Introduction to Combinatorics
Basic counting principles, generating functions, permutations with restrictions, fundamentals of graph theory with algorithms; applications (including network flows). Combinatorial structures including block designs and finite geometries.
Exclusion: (MAT371), MAT344
Prerequisite: MAT42H

MAT43H5 Differential Equations II
(Formally MATC50)
Stable-Instable problems, Green's functions, special functions (Bessel, Legendre), partial differential equations of second order, separation of variables, integral equations, Fourier transforms, stationary phase method.
Two one-hour lectures per week and a one hour tutorial per week.
Exclusion: (MATC43H, MAT767)
Prerequisite: MAT42H & MAT42H Co-requisite: MAT442

MAT43H6 Random Differential Equations
Brownian motion, Fokker-Planck equation, stopping times, reflection principle, Gaussian processes, stochastic calculus, Martingales, martingale representation, Black-Scholes equation. The course provides an introduction to methods of interest in financial mathematics.
Two one-hour lectures per week and a one hour tutorial per week.
Prerequisite: MAT42H, STA47H
Recommended: STA52H

MAT43H6 Readings in Mathematics
Independent study under the direction of a faculty member.
Prerequisite: A G.P.A. of 5.0 or more and consent of the instructor.

MAT46H3 Readings in Mathematics II
Independent study under the direction of a faculty member.
Prerequisite: A G.P.A. of 2.5 or more and consent of the instructor.

COURSES NOT OFFERED 2001/2002

MAT39H3 Geometry I
Exclusion: MAT252Y
Prerequisite: MAT24H3
Co-requisite: MAT33H1 (MAT344H)

MAT39H3 Geometry II
Exclusion: MAT252Y
Prerequisite: MAT24H3

MAT39H3 Combinatorics
Exclusions: MATB4H1 or CSC339H & at least one other B-level course in mathematics or computer science

MAT39H3 Graph Theory
Exclusion: JMC32H3
Prerequisite: MATB3H1 or CSC339H & at least one other B-level course in Mathematics or Computer Science (expected to be offered in 2002/2003)

MAT22Y3 Real Analysis
Exclusion: MAT250H (MATC51H), MAT338, 350
Prerequisite: MAT23H1 (MATB4H1)
MAT345H & MATB43H & MATB43H

MAT22H3 Differential Geometry
Exclusions: MATC24, MAT353
Prerequisite: MATB43

MAT22H3 Complex Variables II
Exclusions: MAT22H3
Prerequisite: MATB34 (expected to be offered in 2002/2003)

MAT46H3 Readings in Mathematics
Exclusions: (MAT52H2, MAT53H2)
Prerequisite: STA52H

MAT46H3 Readings in Mathematics II
Exclusions: (MATB2Y5)
Prerequisite: MAT44H3
Co-requisite: MATB3H1

MAT416H Music
Please see Vital & Pertinent Attention section of the catalogue page 980.

Neuroscience

(B.Sc.)

Faculty List
B. Breznitz, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
I.L. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
E. Cowen, B.Sc. (Rhodes), M.Sc. (Northwestern), Ph.D. (McGill), Professor
J.W. Green, B.A. (Mount Allison), Ph.D. (McGill), Professor
G.O. Ivy, B.A. (Drew), Ph.D. (California, Irvine), Professor
N.W. Milgram, B.A. (UCLA), M.A., Ph.D. (McGill), Professor
T.L. Pettit, B.Sc., M.A. (Louisiana), Ph.D. (Florida), Professor
A.C. Muen, B.Sc. (Georgia), M.Sc. (Toronto), Ph.D. (Toronto), Assistant Professor
E. Zakharev, B.A., M.A., Ph.D. (York), Assistant Professor

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques from constituent disciplines like anatomy, biochemistry, molecular biology, pharmacology, physiology, psychology and sociology are used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have made fundamental contributions to clinical aspects of neurodysfunction and behaviour.

The Major Program is intended for students who wish to combine their studies of Neuroscience with other areas of interest. The Specialist Program is designed for students who have a particular interest in the Neuroscience and wish to focus their studies in this area.

In a few instances, courses from the other campuses may be used to satisfy Program requirements, but such substitutions must be pre-approved by the Supervisor of Studies.

First-Year Students in Neuroscience

BOGAY0V, CHMA02Y and PSYA0V are recommended in the first year if you are intending to pursue a Specialist or Major Program in Neuroscience.

SPECIALIST PROGRAM IN NEUROSCIENCE

Supervisor: Until June 30, 2001
J. Greis (Office: 5312) 
July 1, 2001 to June 30, 2002
G. Ivy (Office: 5506)
The Program requires completion of 12.5 full-course equivalents.

1. The following 3.5 F.E.C.'s:
BOGAY0V Introduction to Biology
CHMA02Y Introduction to Chemistry
FSYA01Y Introduction to Psychology

2. The following 4.5 F.E.C.'s:
BOCAY0Y Cell & Molecular Biology
BOGAY12O Animal Physiology Laboratory
CHMA04Y Organic Chemistry
NROB04Y Animal Physiology
NROB04H Neuroscience & Cell Anatomy and Physiology

PSYA07H Data Analysis in Psychology (STAD52 may not be used to fulfill this requirement)

PSYB05Y Human Brain & Behaviour

3. The following 3.5 F.E.C.'s:
BOCAY12H Biochemistry I: Proteins & Enzymes
BOCAY13H Biochemistry II: Bioenergetics & Metabolism
NROB04H Invertebrate Neurobiology
NROB04L Neuroscience II: Learning & Motivation

NROB04L Neuroscience Laboratory
NROB04L Neuroscience I: Sensory & Motor Systems

PSYB03H Advanced Data Analysis in Psychology

4. 1.5 F.E.C.'s from the following:

(Supervised Study or Thesis courses can be used to fulfill a maximum of 0.5 F.E.C. in this category).

BOGAY0M Vertebrate Endocrinology

NROB04H Synaptic Organization of the Nervous System

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

Supervised Study in Neuroscience

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology

NROB04H Vertebrate Endocrinology
NROCS153 Animal Physiology
A course in animal physiology which will consider regulatory mechanisms that control and co-ordinate the functioning of the body.
Topics will include nerve action potentials, chemical synaptic transmission, contraction of striped muscle, neuromuscular systems, sensory receptors, and hormonal action. This course is the annual half of the Animal and Plant Physiology course, (BGY1010Y) and should be taken by students not contemplating a Major or a Specialist Program in Biology.
Two-hour lecture per week, plus one two-hour tutorial every third week.
Exclusions: BGY1010Y, ZOO1022Y
Prerequisites: BGY1010Y
C.K. Cornwell

NROCS253 Neuroscience I: Cell Anatomy and Physiology
In-depth coverage of the structure and function of the nervous system.
Topics include: neuroanatomy, structure and function of neurons and glial cells, neurochemistry, neural development, and neural mechanisms of communication at the cellular and molecular levels. The objective is to give the student a firm grasp of the structure and cellular/molecular bases of functions of the nervous system as well as its role in the behaviour of the organism.
Three hours of lecture and two hours of lab per week.
Exclusions: PSY290, (PSY260H)
Prerequisites: BGYA01Y, PSYA01Y

NROCS284 Invertebrate Neurobiology
A lecture course on adaptations of the nervous system in invertebrates based on original scientific papers.
The goal is to give students an overview of the integrative function of the nervous system and the neural basis of behaviour in simple, model systems. Selected readings will cover motor systems, sensory systems, mechanisms of decision making, initiating action, coordination, learning and memory. Topics may vary from year to year.
One two-hour lecture per week and tutorials as required.
Prerequisite: BGY1010Y or NROB368H
A. Mason

NROCS353 Neuroscience II: Learning and Motivation
Topics covered under the category of motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under learning include: learning categories, memory systems, and the cell and molecular basis of learning and memory.
Three one-hour lectures plus one one-hour tutorial per week.
Exclusions: PSY291, (PSYC364H)
Prerequisites: NROB608H (PSY480H) plus one other B-level half-course in PSY
A.W. Milgram

NROCS393 Neuroscience Laboratory
Instruction in a variety of techniques used in investigations of nervous system function.
The course is mainly intended for students who are pursuing a Specialist Program in Neuroscience. The procedures covered include: behavioral techniques, surgery, brain lesioning, perfusions, and histology (preparing, sectioning and staining neural tissues). In addition, animal ethics and preparation of scientific papers will be covered.
Two hours of lecture and three hours of scheduled laboratory work per week. Students will also be required to spend additional hours working in the student laboratory.
Limited enrollment: 30
Exclusions: PSY390, (PSYC362)
Prerequisites: PSYB02H & NROB608H (PSY480H)
T. Penne

NROCS463 Neurosurgery III: Sensory and Motor Systems
A focus on the mechanisms by which the nervous system processes sensory information and controls movement.
The topics include sensory transduction and the sensory physiology for each of the sensory systems (olfactory, visual, somatosensory, auditory, gustatory) and models of sensory processing. Both spinal and central mechanisms of motor control are also covered.
Three one-hour lectures and one one-hour tutorial per week.
Exclusions: PSYC364, PSY290
Prerequisites: NROB608H (PSY480H)
A.W. Milgram

NROCS464 Synthetic Organization of the Brain
A detailed study of the synaptic organization of the brain, focusing on major structures of the central nervous system (CNS).
Neuronal morphology, synaptic connectivity, and molecular mechanisms of synaptic function, ion channels and neurotransmitter actions will be covered in detail. Similarities in circuitry among seemingly diverse structures as the olfactory bulb, cerebellum, hippocampus and cerebral cortex will be examined in detail. The goal of the course is to engender a deeper understanding of cellular mechanisms of information processing in the CNS.
One two-hour lecture per week.
Exclusions: PSYC290
Prerequisite: NROC608H (PSY466H)
G. Joy
Discipline Representative: M. Kingwell (416-287-7172)

Philosophy is the study of the ideas that shape our thought and activity. While we do discuss controversial issues in politics, morality, science, religion, art, etc., philosophy is more concerned with the ideas that underlie all such debates. We consider what the role of government should be, what reasons there could be to describe anything as good or bad, what proves that something is true, whether there could be a reality beyond the physical world, and whether the only value of art is the pleasure it gives. Such questions have been answered in a variety of theories, and any study in philosophy begins with learning what others have thought; but our purpose is not primarily to be historians of ideas, and assignments focus on developing the intellectual abilities and techniques required to think effectively for oneself at this deeper level. So philosophy emphasizes interpretation and original thought, reasoning, discussion and assessment.

PHIL 1Y is a survey of the major topics of philosophy. It is recommended both as a course of general interest and as an introduction to the Major Program. B-level courses address specific topics such as art, feminism, politics, techniques of argument, and theories of mind. Since they have no prerequisites they also serve as entry points to philosophy.

Seminars in Philosophy are advanced courses for students with at least two full-course equivalents in Philosophy. (Instructors will admit students whose courses in other disciplines have adequately prepared them for a seminar. Students must provide transcripts when requesting special permission to enrol in a seminar.)

D-level independent study courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior agreement of an instructor.

MAJOR PROGRAM IN PHILOSOPHY

Satisfy PHIL 1Y or PHIL 1D.

Students must complete at least seven full-course equivalents in Philosophy at least three half-courses must be at the C- or D-level.

MINOR PROGRAM IN PHILOSOPHY

Satisfy PHIL 1Y or PHIL 1D.

Students must complete four full-course equivalents in Philosophy at least two half-courses must be at the C- or D-level.

PHIL 201Y3 Ethics

A study of philosophical problems and features in ethics.

Topics may include: the relativities of values, the justification of morality, moral skepticism, ethical egoism, utilitarianism, deontology.

Exclusions: PHIL 225, 276

E. Angelova

PHIL 202H3 Social Issues

An examination of issues that may be both contemporary and historical, that call on us to consider and articulate our values and commitments.

Exclusion: PHIL 281

F.R.A.

PHIL 206H3 Political Philosophy

A study of philosophers about the order and governance of human societies. In this course, a variety of significant political philosophies will be examined. Many questions may be considered, for example: What is justice? When, if ever, is it legitimate for some person to have authority over others? Do people shape and choose the societies they want, or do society shape them? Who really knows what is best for society? Are all people equal? If so, how will society best reflect this? Dispositions of PHIL 260

L. Lange

PHIL 313H3 Philosophy and Feminism

Study and discussion of a variety of issues in contemporary feminist philosophy.

This course will be an introduction to a diverse range of feminist ideas. Feminist thinkers differ greatly on the nature and source of the problem of gender inequality, and equally widely in their proposals for redress.
equitarian societies.

What is feminism? What is a woman? or a race? Is there anything natural or inevitable about gender relations? Why do gender relations exist in virtually every known society? How do gender relations intersect with other social relations, such as economic class, race, age, sexual orientation, etc? These and other topics will be considered through assigned readings, class discussion, and written work.

L. Lampe

PHI320H1 Belief, Knowledge, and Truth

An examination of such questions as certainty, the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.

Exclusion: PHIL220

T.B.A.

PHI320N0 Existentialism

A study of the views and approaches characteristic of such writers as Kierkegaard, Nietzsche, Heidegger, and Sartre.

Exclusions: PHIL220, 321

E. Angelova

PHI320N6 Symbolic Logic I

An introduction to formal techniques of reasoning, sentential logic, and quantification theory or predicate logic. The emphasis is on appreciation of and practice in techniques, for example, for formal analysis of English statements and arguments, and for construction of clear and rigorous proofs.

Exclusion: PHIL245

J.H. Sebok

PHI320N8 The Art of Thinking

A study of methods and techniques for developing effective reasoning and argument, and an exploration of the patterns of thinking that characterize English thought.

This course aims to develop skill in identifying analogies, evaluating premises, constructing counter-examples, and reorganizing arguments. It examines such aspects as: informal logic; deductive argument versus persuasion; types of arguments and the techniques of refutation; common fallacies and how to avoid them. The focus will be on arguments made in ordinary, as opposed to specialized or technical, language. A general proficiency in reading and writing English will be assumed. This course provides an important foundation for Philosophy majors, while offering useful skills for all students, no matter what their Program.

Exclusions: PHIL247H1, TRN200H4

T.B.A.

PHI320N9 Metaphysics

A consideration of problems in metaphysics. Metaphysics is the attempt to see "how things hang together" in the most general possible sense of this phrase. Some of the issues we will cover: the creation and form of the universe, the nature of truth, the ground of possibility and necessity and their relation and the problem of freedom of the will.

Exclusion: PHIL231

W. Seager

PHI370N5 Philosophy of Science

A study of philosophical questions raised by the natural sciences. We shall discuss: alternative conceptions of theory structure, the role of scientific methodology in exploring and predicting phenomena, and the rationality and progress of science.

Exclusions: EFPC, WPHILB1

PHI380H1 Philosophy of Religion

One course or half-course in Philosophy or a course in one of the Sciences.

W. Seager

PHI370N18 Theories of Mind

An examination of questions concerning the nature of mind and thinking.

Traditionally, the mind has been conceived as a mysterious component of human beings, existing in relative independence from the conditions of physical life. Modern research into the structure and function of the brain has thrown doubt on this view, and work in cognitive science suggests that minds and thinking can even be attributed to machines.

We will examine the nature of the mind, and such questions as what thinking is, and whether or not machines can have a mind.

Exclusions: PHIL240, 243

T.B.A.

PHI380N0 Philosophy and Culture

An examination of basic philosophical issues in the creation and interpretation of culture. What do we mean when we use the word "culture"? What intellectual tools do we need to understand culture? Is philosophical questioning, often thought to be universal, in fact shaped by developments in the surrounding culture? How, in turn, does philosophy appraise the importance of culture? Can philosophical reflection help resolve conflicts within, and between, cultures? Thinkers to be studied may include: Marx, Freud, Gadamer, Heidegger, Poulantzas, Lyotard, Irwin and McLuhan.

T.B.A.

PHIL383H3 Seminar in Philosophy: Logic and Theism

A study of theistic belief using logical arguments.

The course will take up all major arguments, classical and modern, for and against the existence of, and beliefs in, God. From time to time logical varieties will be explained and related to these arguments. Other likely topics include God and morality, and divine omnipotence and freedom.

Exclusion: PHIL240, permission of the instructor

H. Sebok

PHIL385H3 Seminar in Philosophy: Cultural Criticism

A detailed examination of philosophical issues in thinking about culture.

This course will pursue theoretical concerns about interpretation, dialogue, identity and authenticity as they relate to cultural formations, including minority cultures, subcultures and popular culture. We also consider the role of ideology, the construction of cultural consensus, and the influence of the media on culture. Readings from authors such as Barthes, Postman, Gadsden, Habermas, Bataille, Debord and others.

Exclusion: PHIL240

T.B.A.

PHIL386H3 Seminar in Philosophy: Theories of Human Nature

An exploration of theories which provide answers to the question "What is a human being?" These answers probe and develop the sorts of catchphrase definitions to which we are all accustomed: "Man is a rational animal," "Man is a political animal," "Man is inherently individual," "Man is inherently social.

Theories of human nature bring together considerations from ethics, political philosophy, metaphysics and philosophy of mind (and so an acquaintance with background material of these areas is required). We will study a wide variety of works by authors such as: Aristotle, Hobbes, Rousseau, Marx and Freud.

Exclusion: PHIL240, permission of the instructor

M. Kingwell

PHIL386H3 Seminar in Philosophy: Political Philosophy

Study of important ideas concerning social order and relationships. This course will be an exploration of contemporary works in political philosophy that strive to deal constructively with questions of cultural, racial, gender or other diversity, including questions of wealth and poverty.

Exclusion: PHIL240, permission of the instructor

L. Lampe

PHIL387H3 Seminar in Philosophy: Topic to be Announced

Exclusion: PHIL240, permission of the instructor

J.H. Sebok

PHIL389H3 Seminar in Continental Philosophy: Ethics and The Other

Kant makes the startling discovery that if morality is based in a free will, then morality can have no objective criteria in the world. But if this is the case, then what is the nature of my ethical obligation, if any? Kant's discovery had enormous implications for moral theory, but even those who depend on his philosophical orientation do not agree with his conclusion. We will look at Hegel, Heidegger and Levinas, who argue that ethical obligation cannot be based in a feeling of purity, as Kant proposed, but must be based in a more profound relation, such as the inherent recognition of others, an existential connection to them, or the face to face encounter with the Other. We will start with a thorough study of Kant's Critique of Practical Reason, before exploring Heidegger and Levinas and end with Levinas's ethics of the Other.

Exclusion: PHIL240, permission of the instructor

E. Angelova

PHIL390H5-390H8 Independent Study

These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.
Specialist (Co-operative) Program in Physical Sciences Scarborough

Environmental Science provides the key to understanding and resolving many of the environmental issues that plague our planet. Problems such as deteriorating and polluted water supplies, acid rain, lake and coastal erosion, disposal of household industrial and radioactive wastes are related to an insufficient understanding of near-surface geology and geological processes. The Specialist (Co-operative) Program in Environmental Science provides students with an opportunity to investigate, analyze and remediate these problems through work placements with government, consulting, industry and the non-profit sector. For further information, consult the listings under Environmental Science (page 79).

The following Major Programs are offered by the Physical Sciences Division at Scarborough:

- Biochemistry
- Chemistry
- Computer Science
- Environmental Science
- Mathematical Sciences
- Physical Sciences

The Division also offers a Minor Program in Environmental Science.

Interdisciplinary courses are offered in the Physical Sciences Division under the F.S.E. designation. They are designed to be taken by students with a broad interest in Physical Science. Most of the Specialist Programs offered by the disciplines of Physical Sciences require one or more of these courses.

The Division offers an interdisciplinary Specialist Program in the Physical and Mathematical Sciences. This program provides an excellent opportunity to combine studies from a number of disciplines in Physical Sciences.

CO-OPERATIVE PROGRAMS

The Division offers two co-operative programs in conjunction with the specialist programs in Computer Science and Environmental Science. See the listings in those disciplines for details.

SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES

Supervisor: M.J.G. Lee (416-287-7384)

This program provides a framework of courses in the Physical Sciences based upon a firm Mathematical Foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.

NOTE: The two previous streams of this Program have been withdrawn. Students currently enrolled in Stream A (Mathematical Sciences Stream) may, with the advice of the supervisor (E. Meech, 416-287-7367) complete the Program or transfer to the new Program, Mathematics and its Applications. See page 135 for Program listing. Students currently enrolled in Stream B (Physical Sciences Stream) should seek the advice of the supervisor (M.J.G. Lee, 416-287-7246) with respect to completing the Program.

First Year:

- ASTA01Y Introduction to Astronomy
- CHMG02Y General Chemistry
- CISC57H Introduction to Scientific Computing
- MAT02H Linear Algebra
- MAT03Y Calculus
- PHY110H Dynamics of Classical Systems
- or PHY120H Principles of Classical Physics
- PHY131H Principles of Modern Physics

Second Year:

- CISC59H Introduction to Computer Science
- MATB24H Linear Algebra II
- MATB41H Techniques of the Calculus of Several Variables I
- PHYB21H Vibrations and Waves
- PHYB22H Electricity and Magnetism
- PSYC90H Instrumentation of Science

Second or Third Year:

- ASTB11H Solar System and Stellar Astrophysics
- CHMG32Y Introduction to Physical Chemistry
- MATB42H Techniques of the Calculus of Several Variables II
- PHYB31H Introduction to Quantum Physics
- STAB12H Statistics

Third and Fourth Years:

- ASTB21H Galactic and Extragalactic Astrophysics
- CISC50H Numerical Algebra and Optimization
- CISC51H Numerical Approximation, Integration and Ordinary Differential Equations
- MATB44H Ordinary Differential Equations
- MATB61H Linear Programming and Optimization
- MAC14H Complex Variables
- MAC24H Differential Equations
MAJOR PROGRAM IN PHYSICAL SCIENCES

Sponsor: McGill U. Lab (BCI-1234-5678)

The Major Program in Physical Sciences is intended for students desiring a general background in the physical sciences (with emphasis in the area of astronomy, physics and physical chemistry) but who do not intend to pursue graduate studies.

Parallel major programs for students more interested in the mathematical sciences or in chemistry are offered in Mathematical Sciences, in Chemistry, and in Biochemistry.

The Program requires 8 full-course equivalences as follows:

First Year:
- ASTA00Y Introduction to Astronomy
- CHMA00Y General Chemistry
- [SCA57H] Introduction to Scientific Computing (recommended)
- [CSC359H] Introduction to Computer Science
- MATA23Y Calculus of Several Variables
- [PHYA20H] Principles of Classical Physics
- [PHYA21H] Principles of Modern Physics
- [PHYA10H] Dynamics of Classical Systems
- [PHYA22H] Principles of Modern Physics

Some of these can be deferred to second year, with prerequisites for second- and third-year courses being carefully checked.

Second and Third Years:
Any 5 full-course equivalents from the following:

NOTE: Students who think they might subsequently proceed to complete the Specialist Program in Mathematical and Physical Sciences (Physical Sciences major) should consider taking the courses marked with an asterisk (*), since these courses are required for the Specialist Program.

- ASTB00H Celestial and Classical Mechanics
- CHME22Y Introduction to Physical Chemistry
- MATA23H Linear Algebra I
- MATE24H Linear Algebra II
- MATHB41H Techniques of the Calculus of Several Variables I
- MATHB42H Techniques of the Calculus of Several Variables II
- PHYB20H Classical Waves
- PHYB21H Electricity and Magnetism
- PHYB22H Physics Laboratory
- PSCC10H Introduction to Science
- PSCC30H Physical Principles of Modern Technology
- STARB2H Statistics

*Corequisites and prerequisites must be carefully checked. For example, MATHB41H is a corequisite for PHYB20H.

PSCC10H The Instrumentation of Science
A study of the computer control of various digital instruments used in the sciences.

This course will provide a background in the principles of basic electricity and digital circuits sufficient to understand the working and limitations of modern electronic instruments. It will provide hands-on experience, including simple programming, using the sensors of modern science, the associated instruments, and the transfer of digital data to a controlling computer. Instruments to be used might include digital balance, digital multimeter, digital oscilloscope and the data acquisition (DAQ) card. Various techniques in data analysis will be introduced, including linear and non-linear regression, graphing and data presentation using various software packages. Activities will be selected from a wide range of subject areas as possible: in Physics, Chemistry, Environmental and Life Sciences.

Prerequisites: [PHYA10H or PHYA20H]

PSCC30H Physical Principles of Modern Technology
The principles of modern technology are rooted in the physical sciences. The electrical properties of semi-conducting materials are the foundation of the burgeoning fields of microelectronics and digital computing. The modulation, transmission, and detection of electromagnetic waves are at the heart of the contemporary revolution in communications technology. The principles of thermodynamics are inviolable constraints on the generation and inter-conversion of energy in its various forms. The goals of this course are to present the physical principles underlying digital, communications, and energy technology, and to examine critically the applications of these technologies in modern society.

Prerequisites: PHYB21H, MATHB41H, MATHB42H

PSCC104H Physical Sciences Project
An independent study course to cover an experimental project or series of projects (including computational projects) in the Physical Sciences. Each project would be supervised by a member of the professional faculty who, in consultation with the laboratory supervisor, would assess the laboratory performance of the student as well as the written report. This course is intended to provide opportunities for experimental work, beyond those available in the formally scheduled laboratory courses, for students registered in a Physical Sciences Scarborough Specialist Program, who have completed the requirements of the first three years of the Program with a C.P.A. of at least 2.3.

Prerequisite: Permission of the Program Supervisor, who shall consult with proposed supervising faculty.

PSCS01H3 The Physical Sciences in Contemporary Society
Current issues involving physical science in modern society. Topics include: complex nature of the scientific method, interconnection between theory, concepts and experimental data; characteristics of prestige, pathology, and judicial-scientific, how scientific research is organized and funded in Canada; role of communication and publishing; public misunderstanding of scientific method; reasons for current anti-science mood; end of the Golden Era of science; insufficiency of reductionism, trends in modern science.

Exclusion: PHYA41H

Prerequisite: Completion of at least one-half of the full-course equivalents for the required courses in any one of the Physical Sciences Scarborough Programs.

Courses not offered 2001/2002

PSCB2043 Chaos and Fractals
Prerequisites: MATHA2Y or MATHA2Y, elementary knowledge of a programming language such as C, FORTRAN, Basic or Turbo.

Exclusion: PHYA41H

Prerequisite: Completion of at least one-half of the full-course equivalents for the required courses in any one of the Physical Sciences Scarborough Programs.

Notes: Where PSCD04H is a Program requirement, it may be replaced by PHYA41H for the approval of the Program supervisor.
Physics
(B.B.Sc.)
Faculty List
J.D. King, B.A. (Toronto) Ph.D. (Edinburgh), Professor Emeritus
P. Kroetz, B.Sc., M.Sc., Queen's), Ph.D. (Manchester), D.Sc. (Manchester), Professor Emeritus
J.M. Perri, B.A.Sc., M.A.Sc., Queen's Ph.D. (Cambridge), Professor Emeritus
A. Crittall, M.Sc. (British Columbia), Ph.D. (Cambridge), Professor Emeritus
A. Jaffe, B.A. (St. Andrews), B.Sc. (Waterloo), B.D. (Illinois), Professor
E.G. Lee, M.A. (Cambridge), B.Sc., Ph.D. (Cambridge), Professor
K. Quick, B.Sc., M.Sc., B.Eng. (Windsor), Senior Lecturer
G. Lefloch, B.Sc., M.Sc., Toronto, Senior Lecturer
Discipline Representative: P.J. Donnellan
(416-274-7828)
Physics is the study of the basic laws that govern how material objects move and influence each other. The effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a nearby atom, or, of an atomic nucleus on an electron, can be accurately described by the laws of physics. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and the theory of relativity, together with the understanding of electric and magnetic effects as beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, and nuclear matter can be obtained in the interactions among the individual units of which these forms of matter are composed.

Physics allows us to describe the properties of light, sound and heat, up to the point where these enter our senses, as well as x-rays, cosmic and other radiations of which we are not directly aware. To do this, we study the theoretical properties of some materials under extreme conditions of temperature and pressure, and of other materials when electric current passes through them, from the basis of a wide range of applications of the subject.

It is possible to develop, in mathematical language, theories that so accurately describe physical phenomena that they may be used to predict the results of many carefully controlled experiments. The study of physics, therefore, involves both mathematics and the techniques of experimentation.

At the University of Toronto at Scarborough, students who are interested in Physics can take the Specialist Program in Physical and Mathematical Sciences, the Specialist Program in Physics and its Applications, the Specialist Program in Computer Science and Physical Sciences, or the Major Program in Physical Sciences. In addition, there is a Co-operative Program in Computer Science and Physical Sciences. Other than the Major program, these Specialist Programs can qualify for the Early Teacher Project (ETP). Note that the Specialist Program in Physics and its Applications has the last two years on the St. George campus. Also, there are a number of other Specialist programs associated with the Department of Physics. These include Specialization in Biophysics, Chemical Physics, Computer Science and Physics, Geology and Physics, Earth Systems: Physics & Environment and Planetary Science. Students interested in any of these options should consult with the Specialist Supervisor, Professor Martin Lee within the first week of classes.

NOTE: There are two two-term introductory sequences in physics, each of which is accompanied by a laboratory. PHYA201H and PHYA211H are designed for those students who do not have an OAC in Physics. PHYA201HY and PHYA211H are designed for those students who have an OAC in Physics. Of the two full-term courses, PHYA201H makes the greater use of mathematics and places more emphasis on developing problem solving skills, while PHYA211H offers a broader coverage of the concepts of classical physics and their applications. As PHYA211H has a calculus prerequisite, a first-year calculus course is an important prerequisite for every student who registers for either the two-term introductory sequence in physics. PHYA201HY, the course contains is designed primarily for students in the Environmental Sciences, may be taken as a one-term introduction to physics without a prerequisite calculus.

NOTE: MATA26Y is the preferred prerequisite for PHYA201H and PHYA211H, although MATA26Y is an acceptable alternative. However, only MATA26Y will serve as a prerequisite for higher-level MAT courses. Therefore, students contemplating a Program that contains MAT courses beyond the A-level must take MATA26Y.

Please refer to the Physical Sciences Searchbar prasenar on page 148 for a list of the Programs offered.

SPECIALIST PROGRAM IN PHYSICS AND ITS APPLICATIONS

Supervisor: M.J. Lee (616-274-7546)
NOTE: Each of the streams of this Program is designed to lead to Honours Specialist Certification in Physics. Courses denoted as PHY220, where '2' is a number, are offered on the St. George Campus. Please refer to the "Early Teacher Project" section of the Calendar (page 000) for details on this route for admission to OISE/UT, University of Toronto.

First Year - 4.0 F.C.E.

ASTA031Y Introduction to Astronomy

or [PHYA201H Introduction to Astronomy]

PHYA201HY Physics of Classical Systems

PHYA211H Principles of Modern Physics

Calculus

MAT137Y Calculus

MAT232H Linear Algebra I

CISC303H Introduction to Scientific Computing

Second Year - 4.0 F.C.E.

ASTB21H Solar Systems and Stellar Evolution

ASTB27H Galactic and Extragalactic Astrophysics

PHYB201H Vibrations and Waves

PHYB211H Electricity and Magnetism

PHYB231H Physics Laboratory

PHYB243H Introduction to Quantum Physics

MATB41H Techniques of the Calculus of Several Variables I

MATB42H Techniques of the Calculus of Several Variables II

Third & Fourth Years - 6.5 F.C.E.

Teaching Certification

PHYB321H Quantum Mechanics

[MATB44H Ordinary Differential Equations]

or [MAT244H Ordinary Differential Equations]

Two of:

ASTB10H History and Nature of Astronomical Discovery

ASTB22H Life on Other Worlds

ASTB35H Practical Astronomy

PHY301H Electronics Lab I

PHY302H Introduction to Computational Physics

PHY311H Radiation on Planetary Atmospheres

PHY326H Modern Physics Laboratory

PHY346H Intermediate Biophysics

PHY351H Classical Mechanics

PHY352H Electromagnetic Theory

PHY353H Quantum Mechanics I

Two of:

PHY354Y Physics and Chemistry of Planet Earth

JPA110H Introduction to Archaeometry

JPA111H Physics and Archaeology

An additional 0.5 F.C.E. from AST or PHY

or [SCOT6H The Physical Sciences in Contemporary Society]

FSCD20H Current Questions on Mathematics and Science

FSCD40H Ordinary Differential Equations

MAT244H Ordinary Differential Equations

MATC46H Differential Equations

APM46H Differential Equations

Three of:

AST226H Introduction to Astrophysics

AST228H Practical Astronomy

AST242H Typical Astrophysics

AST425H Research Topic in Astronomy

Fourth of:

PHY236H Modern Physics Laboratory

PHY251H Classical Mechanics

PHY252H Electromagnetic Theory

PHY253H Electromagnetic Waves

PHY255H Quantum Mechanics I

PHY351H Nuclear and Particle Physics

PHY373H Symmetry and Solid

MATB44H Ordinary Differential Equations

or [MAT244H Ordinary Differential Equations]
SPECIALIST PROGRAM IN POLITICAL SCIENCE
Applications for admission to the Specialist Program are accepted after students have completed at least four full-course equivalents (that is, generally after completing the first year of the degree Program). Applicants must have completed one full-course from among the A-level courses in Political Science listed below. Students must complete at least ten full-course equivalents in Political Science, including:
1. One full-course equivalent from among the A-level political science courses (not more than one full-course equivalent at the A-level can be counted towards Program requirements).
2. POL307YY Classic Texts in Political Theory
   or
   POL553Y, and one of POL550Y, POL551Y, POL552Y

NOTE: This Program requirement is to ensure that all students in the Program take at least a half-course in Canadian Politics.

MINOR PROGRAM IN POLITICAL SCIENCE
The Program requires the completion of at least four full-course equivalents above the A-level in Political Science. At least two of these must be at the C- or D-level. There are two options: either the four full-course equivalents must be taken from any one of the fields listed below (e.g. all four in Canadian Government), or two full-course equivalents must be taken from each of any two of these fields (e.g. two courses in International Relations, plus two courses in Comparative Politics).
A. Canadian Government and Politics:
B. Political Theory:
   POL350Y, POL352Y, POL357Y, POL358Y, POL359Y, POL360Y, POL361Y
C. International Relations:
   POL350Y, POL351Y, POL352Y, POL353Y
D. Comparative Politics:
   POL350Y, POL351Y, POL352Y, POL353Y

POLITICAL SCIENCE AND ECONOMICS FOR MANAGEMENT STUDIES
(See under Economics for Management Studies)
NOTE: Not all A-level half-courses are offered every year. Expected availability of courses for this and the following academic year is indicated below.

SPECIALIST PROGRAM IN PUBLIC POLICY
The Program in Public Policy is intended for students who wish to analyze public policy problems and to develop the professional skills necessary for success in public administration, public service, and public policy analysis. The Program exposes students to the practice of analyzing public policies and to the development and implementation of public policies. The Program is designed to meet the needs of students who wish to analyze public policies from both a theoretical and a political perspective. The Program is designed to meet the needs of students who wish to analyze public policies from both a theoretical and a political perspective.

Majors in Public Policy are encouraged to take ENG191H (Introduction to English as a Second Language) and ENG192H (Writing Workshop for English as a Second Language).

Students are encouraged to take ENG191H (Introduction to English as a Second Language) and ENG192H (Writing Workshop for English as a Second Language).

Because of limited space in SOC302H, majors may be required to take this course during the summer.
MAJOR (CO-OPERATIVE) PROGRAM IN PUBLIC POLICY

Co-ordinator: G. Skogstad (416-287-7294) 
Supervisor of Students: G. Skogstad 
skogstadg@chaos.utoronto.ca

The Co-operative Program in Public Policy is a work-study Program which combines academic studies in various disciplines with work placements in public enterprises, the private sector, and non-governmental organizations. Two work terms, each of four-month duration, must be completed along with the academic Program. An optional, third work term may be completed with the permission of the Co-ordinator. The Program equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and the non-governmental sectors, or to continue to graduate training in public policy. The Program is cross-disciplinary; public policy analysis is the exercise of applying the theoretical frameworks and the positivist and interpretative methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

Graduates receive a three-year B. A. degree with a Major certification in Public Policy and a Major in another discipline.

The Co-operative Program in Public Policy is designed to be completed in conjunction with a Major or Specialist Program in another discipline and may only be taken as part of a four-course honours degree. Students are expected to have completed prerequisites listed as required or optional in the Public Policy Major Program as part of the prerequisites for their other Major Program.

Admission to the Co-operative Program 

Eligibility to the Co-operative Program is limited. Admission is granted in the basis of academic performance and background or experience in relevant subjects.

1. Applying in 2001

University of Toronto Scarborough students who have successfully completed at least 4 full-course equivalents and applicants transferring into 2nd year from elsewhere in the University of Toronto or from another institution may apply for admission to the Program for the fall of 2001 by registering as an application with the Office of the Chair of the Division of Social Sciences. Other students may apply for admission to the Program commencing 2002.

2. Applying in 2002 and Later Years

As of the 2002 admissions cycle, applications from secondary school, from elsewhere in the University of Toronto or from another institution may apply to the Program directly by indicating it on the U OFAC application form.

Once the University of Toronto is notified of the application, candidates are sent information on how to download the required supplementary application from our admissions website. To be considered for the first round of selection, applicants must return the co-op supplementary application form by March 1; the final deadline date is April 1. Therefore, it is essential that applicants submit the initial U OFAC application at least six weeks prior to these dates.

Students who are not admitted directly to the Program may apply for admission to it once they have attained 4.0 credits at the University of Toronto at Scarborough.

Note that enrolment for the Co-operative Program is limited. Admission is granted on the basis of the student's academic performance and background or experience in relevant subjects.

 Fees

Every student in a co-operative program is required to pay additional fees as established by the University.

Work Placement

To be eligible for the first work term, students must have completed at least 10 F.C.E.'s, including 3 F.C.E.'s as a University of Toronto at Scarborough student. Work placement opportunities are arranged by the Program Co-ordinator, but must be won by students in competition with all applicants for the positions. Performance on work terms is evaluated by the employer and the co-ordinator. Students must submit a report for each work term.

To maintain standing in the Program, to be eligible for a work term, and to receive the co-op certification upon graduation, a student must:

- Be proceeding to complete the requirements for a four-year (120 credit) degree
- Maintain a cumulative grade point average of at least 2.5

- Receive a satisfactory evaluation for work term performance and work term reports
- Be registered as a full-time student during study terms
- Return to study during each work term
- Register in, and complete the requirements of, another Major Program or as in to fulfill the requirements for a four-year Honours degree

COPC191H Public Policy Work Term

Work terms are an integral part of the co-op curriculum. Practical work experience in a related field is alternated with study terms to enhance academic studies and develop professional and personal skills. Students are advised that being available for work terms during fall and winter may increase the variety of work available, and that in turn requires students to take courses during at least one summer session. Course credit of 0.5 F.C.E. is granted for each 16-week placement. Work term credits are in addition to the 30 F.C.E.'s required to complete degree requirements, and are graded on a Credit/No Credit basis. There are no additional course fees for work terms.

Prerequisite: only open to students enrolled in the Public Policy Co-op Program.

Course Requirements:

See requirements for Major Program in Public Policy above.

Courses to be completed before the first work term:

Year 1

CISC105H The Why and How of Computing

or

CISC106H Introduction to Computer Programming

or

CISC136H Introduction to Computer Science

SOC20Y1 Introduction to Sociology

Prerequisite to Statistics course (if not STAT220H)

Year 2

POL357Y1 Canadian Politics

ECMB350H Economic Aspects of Public Policy

or

ECMB353H Public Decision-Making

or

GGR7780 POLC757Y POLSC75Y SOCL61Y Methods in Social Research

Statistics course

POLA5110 Critical Issues of Canadian Democracy

An introduction to the study of politics, focusing on five critical issues of contemporary Canadian democracy. Beginning from a review of approaches to theorizing democracy and analyzing issues, the course examines the threats of Quebec nationalism and Western regionalism to national unity, pressures of the global economy on the sovereignty of the Canadian state, conflicts over the welfare state as a collective means to provide for the basic social needs of all Canadians, changes in the civic culture that underlies democratic political institutions and practices, and priorities for reconstructing representative government for the 21st century.

Two hours of lecture per week and a one hour tutorial per week.

R. Mason

POLA6010a Culture and Conflict: Politics, Society and War Since 1913

An examination of political and social attitudes towards war, and their underlying causes, during the 19th and 20th Centuries, as portrayed in film, literature, and historical settings. War examined include the War of 1812, World Wars I and II, and the Vietnam War. Readings include (e.g.) War and Peace and The Guns of August; films include (e.g.) All Quiet on the Western Front and The Green贝恩.

D. Walsh

POLA6110a Leaving Home: Politics and Emigration

The study of the political causes and patterns of emigration in the twentieth century. The course examines the variety of political factors (e.g. economic, political, cultural, social, religious, and military) at work in the decision to leave one's country of origin and the country of immigration. Two hours of lecture per week and a one hour tutorial per week.

Offered: 2001/2001
S. Solomon

POLA6903 Politics, Corruption and Violence

An introduction to some of the basic tools of comparative political analysis by examining the origins and dynamics of corruption and violence in the domestic and international politics of selected less developed countries. Placing the politics of less developed countries within the context of recent
POLS5892Y International Relations
A study of the nature of the international system, the factors that motivate foreign policies, and the institutions for the conduct of international relations. Two hours of lecture per week and a one hour tutorial per week.
Exclusions: POL258Y
Prerequisite: Not open to first year students without permission of the instructor.
D. Welsh

POLS1913 Comparative Politics of Political Development
An examination of the effects which various Western, especially North American, policies and practices have had upon development in the Third World. The policies and practices to be surveyed include those relating to foreign aid, the multi-national corporation, and Western societies. Case material will be drawn from four countries in Latin America and Africa which illustrate a diversity of approaches to development: Cuba, Chile, Ghana, Kenya.
Two hours of lecture per week and a one hour tutorial per week.
Exclusions: POL210Y
Prerequisite: 4.0 F.C.E.s
J. Tscherman

POLS2573 Comparative Politics of Democratic Government
This course undertakes comparative studies of the structures and processes of selected democratic governments in the developed and developing world. It explores various models of parliamentary and presidential government, and introduces students to comparative analysis by examining how representative democratic functions. The focus will be on a group demands in a representative setting. The theory and practice of the representation of interest groups will be analyzed.
Two hours of lecture per week.
A. Rabinow

POLS4534 Intergovernmental Relations in Canada
A study of some of the problems of intergovernmental relations which arise in a federal state and of the governmental machinery which has been developed to deal with these issues. Emphasis on modern Canada.
Exclusions: POL316Y
Prerequisite: POL503Y (POL505Y)
G. Helgason

POLC5893 The Politics of Canadian Health Policy
An examination of public policies with respect to the goal and policies of Canada's health care system. These policies include welfare, health care, and social programs, and policies aimed at improving the health status of citizens. The course will cover the development of Canadian health care policy, the influence of social and political factors on the policy-making process, and the impact of health care reform on society.
Two hours of lecture per week.
Exclusions: POL258Y
Prerequisite: Not open to first year students without permission of the instructor.
D. Welsh

POLS7813 Political Analysis
An examination of the methods of analysis used in the empirical study of politics. The purpose of the course is to enable the student to read political literature to identify underlying values and assumptions, and to differentiate good from poor logic and argument, to distinguish between adequate and inadequate use of evidence and between warranted and unwarranted conclusions drawn from that evidence. Special attention will be paid to the questions surrounding the "science of politics."
Two hours of lecture per week.
Prerequisite: One course in Political Science.
S. Simons

POLC5913 Women in Political and Social Theory
An examination of the theories of the role of women in society, politics, and culture, and of feminist rethinking of the roles assigned to them. The course will focus on the intersection of political and social theories with historical and cultural perspectives.
Two hours of lecture per week.
Prerequisite: 3.0 full-year courses.
G. Helgason

POLC6582 Canadian Public Policy and Administration
A study of the political ideas, institutions, and problems that are involved in making public policies in Canada and analysis of resulting patterns of policy development. Institutional analysis emphasizes the role of cabinets, bureaucrats, courts, interest groups, and intergovernmental relations in making public policy. Processes of agenda-setting, choice of policy instruments, and the impact of political decisions are examined using specific cases. Policy studies focus on economic, foreign, and social policy.
Exclusions: POL213Y
Prerequisite: POL151H or POL508Y (POLASSY)
R. Monoyer

POLC4713 Modern Political Theory
A study of the major political philosophers of the eighteenth and nineteenth centuries. Particular emphasis will be placed on the works of Montesquieu, Burke, and Mill. The course will also include readings on the modern state and its role in twenty-first-century society.
Two hours of lecture per week.
Exclusions: POL220Y
Prerequisites: POL170Y or PHIL100H or SOCI100Y
T.B.A.
Calendar. Those particularly interested in the study of knowledge - language, communication and thought - may wish to consider the Major and Specialist Programs in Cognitive Science described earlier.

Planning Your Program in Psychology

Students should be aware that the A, B, C, D course structure in Psychology dictates the sequence in which courses should be taken, but not the year in which a given course must be taken. That is, A, B, C, D do not correspond to first, second, third and fourth year. For example, it is recommended that PSY 330 be taken in the third year. Students should be aware that with the exception of PSY 401 and 402, all other courses in the Faculty of Arts and Science correspond to 6th and 7th year and not 0th - 4th year. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Program Supervisor can be very valuable in this regard.

Courses in Neuroscience

To facilitate organization of the calendar, all Neuroscience courses that formerly had PSY designations have been given NRO designations. Consequently, these courses appear only in the Neuroscience section. Students interested in including Neuroscience courses in their Psychology Program should consult the Neuroscience section for details. Former PSY course numbers are indicated there as well.

First-Year Students in Psychology

PSY 101Y is recommended to first-year students intending to pursue a Specialist or Major Program in Psychology.

Specialist Program in Psychology

Supervisor: Until June 30, 2001
D. Bons (Office 5638)
July 1, 2001 to June 30, 2002
J.E. Foley

The Program requires completion of 12.5 full-course equivalents, and fulfills the Program requirements for the 4-year B.Sc. degree in Psychology. Students must choose their 6th year courses in consultation with their Supervisor.

A. 3.0 full-course equivalents in Psychology

1. PSY 101Y Introduction to Psychology (1 full-course equivalent)
2. Statistical Methods (1 full-course equivalent)
3. Advanced Data Analysis in Psychology (1 full-course equivalent)
4. Learning, Language and Cognition (1 full-course equivalent)
5. Social and Personality Psychology (1 full-course equivalent)
6. Research Methods (1 full-course equivalent)
7. General Psychology (1 full-course equivalent)
8. Personality and Organizational Psychology (1 full-course equivalent)
9. Social Psychology (1 full-course equivalent)
10. Memory and Cognition (1 full-course equivalent)
11. Cognitive and Psychological Science (1 full-course equivalent)
12. Developmental Psychology (1 full-course equivalent)
13. Biological Psychology (1 full-course equivalent)
14. Personality and Social Psychology (1 full-course equivalent)
15. Neuroscience (1 full-course equivalent)
16. Perception and Cognition (1 full-course equivalent)
17. Social Psychology (1 full-course equivalent)
18. Memory and Cognition (1 full-course equivalent)
19. Cognitive and Psychological Science (1 full-course equivalent)
20. Biological Psychology (1 full-course equivalent)
21. Personality and Social Psychology (1 full-course equivalent)
22. Neuroscience (1 full-course equivalent)
23. Perception and Cognition (1 full-course equivalent)
24. Social Psychology (1 full-course equivalent)
25. Memory and Cognition (1 full-course equivalent)
26. Cognitive and Psychological Science (1 full-course equivalent)
27. Biological Psychology (1 full-course equivalent)
28. Personality and Social Psychology (1 full-course equivalent)
29. Neuroscience (1 full-course equivalent)
30. Perception and Cognition (1 full-course equivalent)
31. Social Psychology (1 full-course equivalent)
32. Memory and Cognition (1 full-course equivalent)
33. Cognitive and Psychological Science (1 full-course equivalent)
34. Biological Psychology (1 full-course equivalent)
35. Personality and Social Psychology (1 full-course equivalent)
36. Neuroscience (1 full-course equivalent)
37. Perception and Cognition (1 full-course equivalent)
38. Social Psychology (1 full-course equivalent)
39. Memory and Cognition (1 full-course equivalent)
40. Cognitive and Psychological Science (1 full-course equivalent)
41. Biological Psychology (1 full-course equivalent)
42. Personality and Social Psychology (1 full-course equivalent)
43. Neuroscience (1 full-course equivalent)
44. Perception and Cognition (1 full-course equivalent)
45. Social Psychology (1 full-course equivalent)
46. Memory and Cognition (1 full-course equivalent)
47. Cognitive and Psychological Science (1 full-course equivalent)
48. Biological Psychology (1 full-course equivalent)
49. Personality and Social Psychology (1 full-course equivalent)
50. Neuroscience (1 full-course equivalent)
51. Perception and Cognition (1 full-course equivalent)
52. Social Psychology (1 full-course equivalent)
53. Memory and Cognition (1 full-course equivalent)
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55. Biological Psychology (1 full-course equivalent)
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92. Neuroscience (1 full-course equivalent)
93. Perception and Cognition (1 full-course equivalent)
94. Social Psychology (1 full-course equivalent)
95. Memory and Cognition (1 full-course equivalent)
96. Cognitive and Psychological Science (1 full-course equivalent)
97. Biological Psychology (1 full-course equivalent)
98. Personality and Social Psychology (1 full-course equivalent)
99. Neuroscience (1 full-course equivalent)
100. Perception and Cognition (1 full-course equivalent)
Psychology 167

PSYB01H3 Psychological Research Laboratory
The nature of hypothesis testing through the design of experiments provides the nucleus of the course. Issues include: planning and conducting research, generating research problems, experimental control, interpretation and evaluation of results, theory construction, and preparation of the research report. Ethical issues in research will also be considered.

Research methods will be introduced in lectures and illustrated in laboratory exercises. This course is required for both the Major and the Specialist Program, and provides the basic skills necessary to take the other laboratory courses in psychology.

Two hours of lecture and one hour lab per week.

Prerequisite: PSY A01/1

D. Todorov

PSYB20H3 Data Analysis in Psychology
This course focuses on the theory and application of statistical procedures in experimental contexts. Examples are related to psychology and considerable time is spent linking experimental design to appropriate analyses. The analyses described include data reduction techniques (e.g., distributions, measures of variance and central tendency, correlations, etc.) and an introduction to some hypothesis testing techniques (e.g., tests based on binomial, Chi-square, t, and F distributions). A working knowledge of elementary algebra is assumed.

Four hours of lecture and one hour of tutorial per week.

Exclusions: ANT C08, ECO B01, ECO B09, MOD T10, GGS B03, STA B32, STA B47, SIC D06, PSY B201

NOTE: Of the above list of exclusions, only STA B47 or PSY B201 may be used to substitute for PSY B203 as a prerequisite for PSY C02 and for purposes of meeting Specialist Program requirements in Psychology. STA B42 may not be used to meet Major or Minor Program requirements in Psychology.

S. Joordens

PSYB10H3 Introduction to Social Psychology
Social influence, conformity and cooperation, group behaviour, change, group movement, attraction, group change, group behaviour (crowding, group behaviour, parent), aggression, cooperation and competition, nonverbal communication, person perception, attraction and emotions. Social Psychology focuses on the problem of how an individual's feelings, thoughts, and behaviour are influenced by the presence of others. The course is designed to demonstrate phenomena of social behaviour and to present theory and research relating to these phenomena. Three hours of lecture per week.

Exclusion: PSY C22

Prerequisite: PSY A01/1

J. Rusell

PSYB30H3 Introduction to Developmental Psychology
Developmental processes during infancy and childhood.

This course presents students with a broad and integrative overview of child development. Major theories and research findings will be discussed in order to understand how the child changes physically, socially, emotionally, and cognitively with age. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life span development.

Three lecture hours per week.

Exclusion: PSY C20

Prerequisite: PSY A01/1

M. Schneider

PSYB40H3 Personality
An introduction to some of the influential theories of personality and the research which they have guided. Specific theories covered vary from year to year. A typical selection might include behavioral psychology, cognitive science, artificial intelligence, and psychodynamic. The aim of this course is to acquaint the student with the diversity of theoretical assumptions and research methods with which basic questions about personality have been approached. Readings are from primary sources.

Three hours of lecture per week.

Exclusion: PSY C20

Prerequisite: PSY A01/1

A. Kida

PSYB20H3 Abnormal Psychology
Definitional and identification of abnormality, historical-cultural influences on attitudes, practice, theories, and research; a variety of past and current viewpoints in the development of hypotheses, models and theory, including genetic, physiological, soma, psychoanalytic, psychoanalytic, social-learning, and sociological; classification systems, including an exploration of their reliability and validity, description of a variety of sources, pathologies, and other behavioral disorders of adults and children, including cognitive, emotional, sensory-perceptual, psychotic, and motor aspects; approaches, methods of investigation, and findings in psychological, psychophysiological, genetic, and epidemiological research; management, control, and modification of abnormal behaviour within and outside institutions, including pharmacological, psychotherapeutic, learning-based, and social engineering approaches.

The conceptual problem of defining abnormality and categorizing for variables will be emphasized.

Three hours of lecture per week.

Exclusion: PSY C20

Prerequisite: PSY A01/1

K. Zelaznik

PSYB41H3 Behaviour Modification: Origins and Applications
A survey of attempts to understand and regulate abnormal human behaviour. Psychological underpinnings: basic concepts and models of behavioral change; research strategies, open processes; behavioral contracting, biofeedback, punishment, attribution, placebo effects, cognitive therapy, rational-emotive therapy, thought stopping, modeling, fear extinction, aversive training, desensitization, mastery of anxiety, allergic and social phobias. Treatment of alcohol and drug abuse.

Three hours of lecture per week.

Exclusion: PSY C20

Prerequisite: PSY A01/1

J. Eke

PSYB51H3 Perception and Cognition
Theory and empirical research on perception and cognition, including problems of reasoning, symbolism and visual and tactile perception, representations, and communication.

Topics include cognition and perception in the handicapped and normal perceiver; perceptual illusions, perspective, shadow patterns and motion, possible and impossible scenes, human computer scene-analysis, ambiguity in perception, outline representation; the research on its adults and children, and different species. Demonstrations and exercises form part of the course.

Three hours of lecture and a one hour tutorial per week.

Prerequisite: PSY A01/1

J. Kennedy

PSYB57H3 Memory and Cognition
Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, e.g., theories of a general model of information processing.

Three lecture hours per week.

Exclusions: PSY C25, PSY C27

Prerequisite: PSY A01/1

Concorde: PSY B07H3

C. MacLeod

PSYB60H3 Human Brain and Behaviour
An examination of the neurological basis of human behaviour: an introduction to human neurophysiology.

The course focuses on the following higher brain functions in humans: hemispheric specialization, neuropsychology, psychopathology of speech, disorders of the central nervous system (multiple sclerosis, epilepsy, damage to the frontal, parietal, occipital and temporal lobes, Alzheimer's disease, neglect, and speech disorders); psychopharmacology and the biological basis of psychiatric disorders. Three hours of lecture per week.

Prerequisite: PSY A01/1

T. Ferr

PSY C02H3 Scientific Communication in Psychology
The development and enhancement of practical and professional skills based on current standard discourse in psychological science. The primary focus is on improving the student's ability to think, organize information and communicate clearly, critically and effectively within the discipline and to understand the differences between scientific and non-scientific approaches to the study of behavior. Related skills, such as strategies for literature review, will be incorporated.

This course is limited to students enrolled in the Psychology Specialist Program, and is recommended to be taken in the student's third year.

Two one-hour lectures and one two-hour tutorial per week.

Prerequisites: PSY C011H or PSY B07H3 Concurrent: PSY C011H or PSY C011H

I. Foley

PSY C08H3 Advanced Data Analysis in Psychology
This course is a continuation of PSY B07 and focuses primarily on the analysis of variance (i.e., ANOVA) as a statistical analysis tool. The course is specifically designed for students with a background in psychology, and will cover advanced data analysis techniques, including ANOVA, regression analysis, and multivariate analysis. Lecture hours: 3.
PSY120H5 Psychology of Gender
This course focuses on theory and research pertaining to gender and gender roles. The social psychological and social-developmental research literature concerning gender differences will be critically examined. Other topics also will be considered, such as gender-role socialization. Teaching method: seminar. Two hours of lecture per week. Limited enrolment: 20
Exclusion: PSY123
Prerequisites: PSYB10H5 plus two C-level half-courses in PSY
K. Darden

PSY130H5 Current Topics in Abnormal Psychology
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year. Two hours of lecture per week. Limited enrolment: 20
Exclusion: PSY140
Prerequisites: PSYB10H5 or PSY12H5 or PSYB10H5 plus one C-level half-course in PSY
G. Capcik

PSY135H3 Current Topics in Memory and Cognition
An intensive examination of selected topics in the field of memory and cognition. The specific content will vary from year to year. Two hours of lecture per week. Limited enrolment: 20
Exclusion: PSY145, PSY1471
Prerequisites: PSYB57H5 plus one C-level half-course in PSY
M. Smith

PSY132H5 Fundamental Issues in Cognitive Science
An examination of the conceptual and philosophical issues that lie at the foundation of cognitive science. Topics include: the mind-body problem; functionalism, mental representations, propositional attitudes, naivem, the modularity of mind, metatheoritical intelligences, consciousness. Two hours of lecture per week. Limited enrolment: 20
Exclusion: (PSY130H3)
Prerequisites: PSYB57H and a PSY150- or 160-series half-course or permission of the instructor
A. Gopnik

PSY160H5 The Scientific Study of Conscious and Unconscious Influences
This course focuses on empirical attempts to distinguish between conscious and unconscious processes, and to better understand the manner in which they combine to affect performance. The course will begin with a brief history of experiments studying conscious and unconscious influences, and will then shift to a detailed examination of more current approaches. Topics covered will include subliminal perception, concreteness versus unconcreteness, memory, and models of the relation between conscious and unconscious influences. Two hours of lecture per week. Limited enrolment: 20
Prerequisites: PSYB57H and at least one C-level course in Psychology
S. Joordan

PSY105H3 Thesis in Psychology
This course offers the opportunity to engage in a year-long research project under the supervision of an interested faculty member in the Psychology. The project will culminate in a written report in the form of a thesis and a defense of that report. During the course of the year, at appropriate times, students will meet in person or in their own research proposals, to appraise the proposals of others, and to discuss the results of their investigation.
Students will meet as a group with the coordinator as well as individually with the supervisor. This course is restricted to Specialist in Psychology with a cumulative G.P.A. of 3.0 or higher. Students planning to pursue graduate studies are especially encouraged to enrol in the course. Students must obtain a permission form from the Divisional Office (S41A1) that is to be completed and signed by the intended supervisor, and returned to the Divisional Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus will need to arrange co-supervision with a faculty member in Psychology at this campus.
Two hours meeting per week.
Exclusions: NRO349, COSCD10, PSY400
Prerequisites: PSYB10H5 & PSYB97H & PSY10H. Psychology Specialist, cumulative G.P.A. of 3.0 or higher
Co-ordinator: S. Joordan

COURSES NOT OFFERED IN 2001/2002
PSY120H5 Sensation and Perception
Exclusion: PSY121
Prerequisites: PSY10H1
J. Coslett

PSY140H4 The Psychology of Emotions
Exclusion: PSY240H1
Prerequisites: PSYB10H5 & PSYB70H
A. Oatley

PSY140H3 Psychometric Methods Laboratory
Prerequisites: PSY160Y & PSYB10H5 & PSYB70H
R.C. Edgell

PSY142H3 Learning Laboratory
Exclusions: PSY200, PSY300, PSY366
Prerequisites: PSYB10H5 & PSYB70H & PSY210H3
G.S. Lopez, A.B.A., M.A., (Alberta), Ph.D. (British Columbia Professor)
M.F. Bunce, B.A., Ph.D. (Sheffield), Associate Professor
S. Latta, B.A. (Kingston), M.A., Ph.D. (Tocoon) Associate Professor
L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto) Associate Professor
S. Vogt, B.A. (McGill), M.A., Ph.D. (York), Associate Professor
S. Bamford, B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Assistant Professor
Discipline Representative/Supervisor of Study: M.F. Fains (416-287-7313)
The Program in Society and Environment offers an interdisciplinary approach to environmental issues from the perspective of the social sciences. It assumes that the distinctions between environmental, social, political, and scientific perspectives are artificial, and that the environmental problems are mostly created by human societies. A clear understanding of environmental problems from this perspective requires knowledge of social and political processes, of natural history, of the history of conservation, of planning and urban development, and as well as of natural environment processes. In this Program, the complex interactions between societies and environments are approached through a core of specialized courses, social science methods and theories, which are applied specifically to the themes of relations between humans and ecosystems; planning cities; policies for agricultural and food; practices and policies for health. In order to pursue these themes, students can select from relevant courses in Sociology, Political Science, Geography, Anthropology, International Development Studies, Environmental Earth Sciences and other related disciplines. It therefore combines well with those disciplines for students who wish to combine Society and Environment with another Major.

MAJOR PROGRAM IN SOCIETY AND ENVIRONMENT
The requirements for this program are eight full-course equivalents and at least one advanced course. Students are also recommended to take 3 FCE's in addition to those above. This program must be approved in advance.

1. Introductory Courses: SOB01Y. Students are also recommended to take 3 FCE's in addition to those above. This program must be approved in advance.

2. Focus Courses: SOB01H and ANT101Y.

3. Methodology: One full-course equivalent from: SOC00Y, SOC03H or STAT100 or equivalent, ANT128Y, SOC130H, ECON130, ECON131, POLC33H, SOC022H, SOB04H

4. Advanced Courses: Three full-course equivalents required, with at least one full-course equivalent from List A, and at least two full-course equivalents from List B:

   LIST A: CORE:
   POLC23Y, POLC28Y, SOC03H, SOB02H, WSTC02H

   LIST B: FOCUS:
   [Food and Agriculture Courses] ANT01H, ANT02H, ANT04H, OCR02H, OCR04H
   [Urban Courses] ECON23H, GNO30H, GNO07H, GNO13H, GNO30H, SCC02H, SCC05H
   [Health Courses] ANT00H, ANT01H, ANT03H, ANT04H

SOB01Y The Ecological Perspective in Anthropology
An examination of the relationship between human populations and cultural systems with their environments. Prerequisite: ANTA01Y or permission of the instructor. Refer to Anthropology for complete course description.

SOB02H International Development Studies: Development and Environment
An introduction to the environmental consequences of development activities, with emphasis on tropical countries. Prerequisite: EES301H. Refer to International Development Studies for complete course description.

SOB04H Environmental Economics
The application of economic analysis to problems of environmental change and natural resource use. Problems with markets where there are externalities in production and consumption, often related in resource like clean air, oceans and biodiversity. The application of cost-benefit analysis to environmental problems. Applications to Canadian and international environmental issues. Exclusion: EEC03H. Prerequisites: SOB00U or IDS062 or one B-level course in EES.

SOB06H Geographical Information Systems (GIS) and Empirical Reasoning
This course is divided into three sections. In the first section, students review relevant theory and model, dependence and causation, induction and deduction, map as model, and the roles of space, place, location, and scale in the understanding of social processes. In the second section, the course, students are introduced to basic geodesy, the structuring of spatial data, data sources and their geographic interpretations, GIS components, tools and applications, spatial data transfer, and data accuracy. In the third section, the students learn about empirical methods in spatial analysis and organization. Two hours of lecture per week. Exclusion: GIS201. Instructor: B.A. (Windsor), Ph.D. (York, Canada), Associate Professor

Sociology (B.A.)
Faculty List
W.K. Aswini, B.A. (LaSalle), M.A., Ph.D. (Catholic Univ. of America) Associate Professor
W.L. James, M.A. (Wayne State) Ph.D. (O nit), Professor Emeritus
J. Huseru, B.A., B.A. (Western Ontario), Ph.D. (Ohio State) Professor
J. Turner, B.C. (Ontario) PGCE (London), M.A., Ph.D. (Alberta) Professor
M. deMond, B.A. (California), M.A. Ph.D. (Toronto, Associate Professor
P.C. Houng, B.A. (National Cheng Kung University), M.A., Ph.D. (UCLA), Ph.D. (UCLA) Associate Professor
G. Kay, B.A. (London), M.A. (Windsor), Ph.D. (Toronto) Associate Professor
S. Unger, B.A. (McGill), M.A., Ph.D. (York, Canada), Associate Professor
B. Chirica, B.A. (York), M.A. (McGill), Ph.D. (UCLA) Associate Professor
J. Hermer, B.A. (Windsor), M.A., Ph.D. (Carleton) Associate Professor
D. Reit, M.A., Ph.D. (Carleton) Associate Professor
Discipline Representative: P. A. H Poster (416-287-7251) Sociology is the scientific study of interaction among people, the social relations which they establish, and the social groups which they form. Sociology attempts to explain how society is organized, how it functions, and what accounts for social cohesion, social stratification, social mobility, and social change. It studies the consequences of cooperation, competition, and conflict.
Students may wish to take Sociology courses as a part of a general education, in anticipation of the usefulness of certain courses in future occupations or professions, or as part of a Specialist, Major or Minor Program.

The introductory course, SOCA01Y, is intended to familiarize students with the distinctive theories, methods and questions of sociology as a part of the liberal education. In addition, the SOCA01Y course provides a minimum background of knowledge about sociology, and hence is a prerequisite to all of the more advanced courses.

Students who want to learn about certain areas of sociology which may be useful in later occupational situations may consult faculty advisors who are prepared to assist them in course selection. There are no formal requirements for these special areas and they will not be designated on diplomas.

The faculty advisor for special areas of concentration are:
Social Work: Prof. A. Sociev
Urban Studies: Prof. J. Hasag
Education: Prof. J. Ravens
Planning A Program in Sociology
Students are obliged to take required courses in the Major and Specialist Programs as early in their careers as possible. For example, SOC01Y, SOCA03Y and SOCA04Y should be taken during the second year, and SOC05Y should be taken during the third year. Failure to do so may lead to timetable conflicts and could prolong the completion of the Program. Students are reminded that they are not permitted to register in courses for which they have not completed the prerequisites indicated in the Calendar. They may only enter a course for which they lack the prerequisites by obtaining the written permission of the instructor prior to registration.

Instructors have the right to request removal of any student ineligible for enrollment.

SPECIALIST PROGRAM IN SOCIOLOGY
Supervisor: Dr. Uneke (416-287-7200)
The program requires completion of seven full-course equivalents in Sociology which may be included in a four-year degree.
1. SOC01Y Introduction to Sociology
2. SOC02Y Methods of Social Research
3. SOC03Y Classic Sociological Theory
4. SOC04Y Social Statistics
5. Two full-course equivalents at B-level in Sociology
6. SOC05Y Contemporary Sociological Theory
7. One and a half full-course equivalents at C-level
8. One full-course equivalent at D-level
9. One other full-course equivalent in Sociology

Enrollment in this Program will be limited starting in 2002.

Two three hours of lecture per week.

SOC03Y3 Classific Sociological Theory
This course will locate the development of sociological theories within the general framework of the history of social thought.

After a brief review of the antecedents of sociological thought in social philosophy from classical antiquity to the 19th century, the emergence of sociology is examined within the context of critical social and political changes. Special consideration is given to the works of Comte, Marx, Durkheim, Weber, Simmel and Final. The significance of their theories for contemporary developments in sociology is emphasized.

Two hours of lecture per week.

SOC05Y3 Urban Sociology
A review of theories of urban growth and urban form; the interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment, etc.); urban social networks (ethnic and cultural heterogeneity, neighborhood, community and other voluntary associations).

Two hours of lecture per week.

SOC06Y3 Social Statistics
A consideration of elementary statistics including the summarizing of data, the logic of statistical decision-making and a number of commonly used statistical tests. Statistics is a basic tool used by sociologists. As understanding of statistics becomes common for the student who wants to become an informed reader of social research. A working knowledge of elementary algebra is required. However, the lecturer will undertake brief reviews of mathematics as the need arises. This course is intended to replace SOC01Y.

Two hours of lecture per week and one hour tutorial.

Limited enrollment: 170
Exclusions: PSY103, SOC009, SOC011, PSY187, SOC021, SOC020, STAT22
Prerequisite: SOC01Y

SOC08Y3 Ethnicity

Sociology 175
Spanish
(B.A.)

Faculty List:
P.R. Laine, M.A., Ph.D. (Cornell), Professor Emeritus
R. Smythe, B.A., M.Lit. (Bristol), M.A., Ph.D. (Michigan), Professor

MAJOR PROGRAM IN SPANISH LANGUAGE

Supervisor: R. Smythe
(416-287-7147) or (416-287-7122)

The Major Program in Spanish Language has been withdrawn. Every reasonable effort will be made to allow students registered in this Program to complete it.

MINOR PROGRAM IN SPANISH

Supervisor: R. Smythe
(416-287-7147) or (416-287-7122)

The Minor Program in Spanish Language has been withdrawn. Every reasonable effort will be made to allow students registered in this Program to complete it.

SPAA01YS Introductory Spanish

This elementary course for students with no knowledge of Spanish. The course develops listening, speaking, reading, and writing skills through a variety of oral and written exercises enhanced by audio-visual and computer-based materials. For students fulfilling a language requirement and those with a general interest in Spanish. Exclusions: OAC Spanish or Grade 13 Spanish; SPA100, SPA103 T.B.A.

SPAK01HS Intermediate Spanish

This course concentrates on an intensive review of Spanish grammatical principles in the context of written exercises, compositions, and oral translations. Exclusions: SPA220 (SPA801); native proficiency in Spanish. Prerequisites: OAC Spanish or Grade 13 Spanish or SPA601 T.B.A.

SPAB00HS Practical Translation

A workshop in translation from and into Spanish. Translation of texts from such fields as advertising, commerce, entertainment, law, medicine, politics, science and technology, and sport will broaden students' vocabulary and develop proficiency in handling a variety of non-literary modes of expression. Evaluation is based on weekly assignments, active participation in class discussion, and an examination. Exclusions: SPA200 (SPA801); native proficiency in Spanish. Prerequisite: SPA802 T.B.A.

SPAC01YS Advanced Spanish

Intensive study of grammar and syntax, translation, composition, and oral practice. Detailed examination of the idiosyncrasies of Spanish grammar through intensive practice in translation from and into Spanish, composition, and conversation. Four hours per week in lecture/tutorial format. Exclusion: SPA220
Prerequisite: SPA801 or SPA803
Offered as accelerated course, spring term. R. Smythe

COURSES NOT OFFERED 2001/2002

SPAC02H3 History of the Spanish Language
Exclusion: SPA223
Prerequisite: SPA801

SPAC03H3 The Civilization of Spain II
Exclusion: (HUM613)

SPAC04H3 Business Spanish Pre- or Corequisite: SPA301

SPAC11H3 Literary Language Exclusion: SPA223
Prerequisite: SPA801 or SPA803

SPAC21H3 Modern Hispanic Short Fiction
Exclusion: SPA484H
Prerequisite: SPA803
The Specialist Program in Visual and Performing Arts requires the completion of fourteen and a half full-course equivalents within a twenty-course degree as follows:

1. At least three full-course equivalents from:
   - VFPA41H1 Survey of Cinema I: 1890-1945
   - VFPA42H1 Survey of Cinema II: 1945 to the Present
   - VFPA43H1 Introduction to Arts Management
   - VFPA49H1 Experiencing the Live Theatre I
   - VFPA44H1 The Study of Visual Art
   - VFPA45H1 Visual Art in the Modern World
   - VFPA46H1 Foundation Studies in Studio
   - VFPA48H1 Introduction to Music
   - VFPA49H1 Music of the World’s Peoples
   - VFPA49H4 Experiencing the Live Theatre II
   - VFPA53H1 Computers and the Arts I
   - VFPA54H1 Research in the Arts
   - VFPA55H1 Introduction to Contemporary Cultural Theory
2. At least one of the following courses:
   - EMG30YY What is Culture?
   - PHIL20H1 Philosophy of Art
   - PHIL20SH Philosophy and Culture
   - VFPA41H1 Bus Way II Art
   - VFPA41SH Cultural Pluralism and the Arts I
3. At least one of the following courses:
   - VFPA10H1 Current Issues in the Visual and Performing Arts
   - VFPA20H1 Seminar in Visual and Performing Arts
   - VFPA22H1 Project in Visual and Performing Arts
4. Further VFPA courses and other electives, two full-course equivalents of which must be at the C- or D-level, to bring the total taken within the program to fourteen and a half full-course equivalents. These may include the courses listed for a Major in art history, drama, music history, or studio, or a broad selection of approved courses from the arts and humanities.

Consultation with the Supervisor is essential for all students each year of their program. Students who are considering continuation to the graduate level must also consult the Supervisor of the relevant Major program in order to plan the selection of courses to fulfill the fifth requirement of the Specialist program.

It is suggested that students complete the initial requirement as soon as possible. Admission to the program will be offered to applicants who have completed (or are completing) at least two of these core courses and who have demonstrated ability through academic and other achievements, interview with faculty and, for those concentrating in Studio, portfolio. The second requirement should be started in the second year and the third may be fulfilled at any point in the first three years. Students must maintain a cumulative grade point average of 2.50 to remain in the Program.

Art History
Because art is perceived through the eyes and other senses as well as through the intellect, art history courses use slides, films, video, and direct viewing of works in galleries and museums and in the cities. Although some of the courses reflect a traditional structuring of art history by time periods, instructors often use new methodologies to explain the work within these periods.

Art history courses at the A-level and B-level are normally open to all students. In addition to the practice in critical thinking and writing provided by all humanities disciplines, these courses often offer basic information about painting, sculpture, architecture, and other arts, and a choice to improve perceptual awareness.

MAJOR PROGRAM IN ART HISTORY

Supervisor: G. L. Carroll (416-287-1711)

Students must complete seven full-course equivalents as follows:
1. One full-course equivalent at the A-level in art history from the list below.
2. Four full-course equivalents at the B-level in art history from the list below. Students may substitute one full-course equivalent from a major or another discipline (such as VFPA41H1, VFPA41SH or ENG100H), with the Supervisor’s approval.
3. Two full-course equivalents in art history at the C/D-level (or at the 300-400-level on the St. George campus).

MINOR PROGRAM IN ART HISTORY

Supervisor: G. L. Carroll (416-287-1711)

Students must complete four full-course equivalents from the courses below as follows:
1. One full-course equivalent at the A-level in art history.
2. Two full-course equivalents at the B-level in art history.
3. One full-course equivalent in art history at the C or D-level, chosen in consultation with the Supervisor.

Courses which may fulfill the requirements of the Program:

VFPA41H1 The Study of Visual Art
VFPA42H1 Visual Art in the Modern World
VFPA43H1 The Body: Representations and Theory
VFPA43H1 The Human Figure in Greek Art (18th-4th C.)
VFPA43H1 Carausius and Romanae Art and Architecture
VFPA43H1 The Arts through Time
VFPA43H1 The Arts in Narnia (ca. 1400-1500)
VFPA44H1 Baroque Painting in the Netherlands
VFPA45H1 Art in the Age of the French Revolution
VFPA47H1 Romanticism
VFPA47Y1 Twentieth-Century Art
VFPA49H1 Art in North American Cultures
VFPA51H1 Art, the Museum, and the Gallery
VFPA52H1 Ancient Art and Architecture (ca. 900 B.C.-300 A.D.)
VFPA53H1 Medieval Art
VFPA54H1 Renaissance and Baroque Art
VFPA55H1 Religion and the Arts I
VFPA56H1 Religion and the Arts II
VFPA57H1 Women and Visual Art
VFPA58H1 Gothic Architecture
VFPA59H1 French Ruins, Rembrandt, and Vermeer
VFPA65H1 Seminar in Twentieth-Century Art
VFPA66H1 Topics in Art of the Ancient World
VFPA67H1 Supervised Reading in Art History
VFPA68H1 Supervised Reading in Art History

Arts Management

SPECIALIST (CO-OPTATIVE) PROGRAM IN ARTS MANAGEMENT

Co-ordinator: S. C. Cameron (416-287-1714)

Supervisor: A. C. Cameron (416-287-1714)

The Co-operative Program in Arts Management is designed for students with an interest both in the arts and in business or management, and includes requirements four to five years to complete. It combines academic study in a wide variety of subjects with practical work experience, preparing students for permanent employment as arts managers, or for further studies in Arts Administration, Business Administration, Museum Studies, Drama, Music, Art History or Studio. For further information, see http://arts.csc.utoronto.ca/artsmg/index.html

Admission to the Program

Applications may apply to the program directly from secondary school or apply as transfer students from college or university. The timing of work placements for students who receive transfer credits will depend upon the particular university program completed. When applying, applicants must indicate the special code for this Scarborough program on the Application For Admission To An Ontario University. Once the University of Toronto is notified of the application, candidates are sent information on how to download the co-op supplementary application from our admissions website. To be considered for the first round of selection, applicants must return the co-op supplementary form by March 1; the final deadline is April 1. Thereafter it is essential that applicants submit the initial OSAC application at least six weeks prior to these dates. Entitlement in the program is limited. Interviews are normally held from March until May for students who pass the initial screening. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, and interest and potential ability in Arts Management. Facility in another language and OAC accounting are highly desirable.

Fees

All students in a co-operative program are required to pay additional fees as established by the University.

This program requires fifteen academic full-course equivalents within a twenty-course degree and two work terms of twelve to sixteen weeks each. Students complete six full-course equivalents as part of the Arts Management core program, three full-course equivalents in (B), the management field, six full-course equivalents from (C), the artistic field, and a further five full-course equivalents chosen in conjunction with the program supervisor. The tutorial and the work term are the elective field is to allow students some flexibility in choosing degrees programs to their interests and future needs. In addition, extra credits are awarded for the work terms.

CONSULTATION WITH THE SUPERVISOR OF STUDIES IS ESSENTIAL FOR ALL STUDENTS IN EACH YEAR OF THEIR PROGRAM. IN ADDITION, ALL PROGRAM AND COURSE CHANGES MUST BE APPROVED BY THE SUPERVISOR OF STUDIES.
A. Arts Management Core Program
The following six full-course equivalents are required:

- VPA10H Introduction to Arts Management
- VPA20H Computers and the Arts I
- VPA30H Introduction to Contemporary Cultural Theory
- VPA36H Cultural Pluralism and the Arts I
- VPA31H Workshop in Arts Management I
- VPA32H Financial Management in the Arts and Cultural Sector

B. Management Field of Study
The following three full-course equivalents are required:

- MGT20Y Introduction to Management
- MGT23H Managing People in Organizations
- MGT30H Managerial Skills

C. Artists Field of Study
Six full-course equivalents (in addition to courses listed in the Arts Management Core Program) from one of the following disciplines: Art History, Drama, Music, and Studio. These courses should follow the requirements established for the major program in your chosen artistic field.

Work terms
Work terms may begin in September, January, or May and students are normally eligible for a work placement after their second year of study. The place of work will vary widely according to availability and to a student's needs and abilities. Although the work placements are arranged by the coordinator of the Arts Management Program, the students must be won by students in competition with all applicants for management. Performance on work terms will be evaluated by both employer and co-ordinator. Students must submit the report at the end of each work term a report which integrates knowledge gained during the placement with

Introduction to Arts Management Co-op
During their first year, students will participate in a co-op tutorial. This is designed to prepare students for their work term experience and is crucial for ensuring that students get the most benefit from their co-op placement learning opportunities. The tutorial will cover a variety of topics that will help students to develop the skills and tools they require to secure placements that best match their interests. Students will gain insights into trends in the industry as well as research opportunities. The tutorial will consist of presentations, hands on activities and group exercises. This tutorial is in addition to the 20 full-course degree requirement. There are no additional fees associated with this tutorial.

Satisfactory participation in the tutorial is required before students go on work terms.

Courses in the first two years of the program
The first year of study should consist of VPA106H, VPA216H or VPA416, one full-course equivalent from the artistic field, MGT20Y, and further courses in the artistic management field or electives.

The second year of study should consist of five full-course equivalents to include VPA301H, VPA316H, VPA306H, VPA312H or VPA416H, and a balanced mixture of management artistic and elective courses.

Drama
The drama courses have been devised to serve students who intend to major in Drama, students who intend to specialize in Visual and Performing Arts, and students who have a general interest in drama and theatre.

We offer two types of courses which complement each other: theoretical and practical. The theoretical courses are in the history of theatre and in special aspects of theatre history and theory. In the practical courses, students become acquainted with all aspects of theatre production in studio situations, both as actors and technicians. Participation in public productions at the College is strongly encouraged.

MAJOR PROGRAM IN DRAMA

Supervisors: P. Sperandio (416-287-7188)

Students must complete seven full-course equivalents as follows:

1. VPA310Y An Introduction to the Practical Elements of Theatre
2. VPA312Y Intermediate Workshop in Theatre Performance
3. VPA321H The History of Theatre I
4. VPA322H The History of Theatre II
5. VPA323H Modern Theatre
6. VPA331H Introduction to Asian Theatres
7. VPA332H Twentieth Century Drama

MINOR PROGRAM IN DRAMA
Supervisor: P. Sperandio (416-287-7188)

Students must complete four full-course equivalents as follows:

1. VPA310Y An Introduction to the Practical Elements of Theatre
2. VPA312H Intermediate Workshop in Theatre Performance
3. VPA321H The History of Theatre I
4. VPA322H The History of Theatre II

Courses which may fulfill the requirements of the Program:

VPA310Y Introduction to the Practical Elements of Theatre
VPA312H Intermediate Workshop in Theatre Performance
VPA321H The History of Theatre I
VPA322H The History of Theatre II
VPA331H Introduction to Asian Theatres
VPA332H Twentieth Century Drama
VPA333H Women in the Theatre
VPA334H Art and Nature of Comedy
VPA335Y Intermediate Workshop in Theatre Performance
VPA337Y Texts and Production
VPA339H Directing Live Theatre II
VPA331H Advanced Workshop: Mathematics in Theatre
VPA337Y The Victorian Theatre
VPA339H Directing Live Theatre II
Music
The Music curriculum is designed both for students who intend to pursue a career in the arts and for students whose interests are more general. Students who have taken music at high school or elsewhere will find a selection of historical, theoretical, and practical courses in music, while students with no previous background can begin musical studies here. Music is an upper-level music course assumes the student has some ability in reading music, and all continuing students are encouraged and helped to acquire this skill as soon as possible. Students who need additional preparation are advised to take VPA058H and VPA048H. All students should consult the catalog of the various opportunities that exist here for practical music making, particularly the series of Supervised Performance courses.

MAJOR PROGRAM IN MUSIC
AND CULTURE
Supervisor: C. Clark (416-287-7191)
Students are required to complete a total of seven full-course equivalents in Music made up as follows:
1. VPA480H Introduction to Music
    VPA490H Materials of Music I
    VPA499H Music of the World’s Peoples
    VPA580H Materials of Music II
2. One and one-half full-course equivalents chosen from VPA488H to VPA499H.
3. One full-course equivalent from VPA488H, VPA490H, VPA493H, VPA496H.
4. One and one-half full-course equivalents from VPA488H to VPA499H and PAD300H to PAD301H.
5. One full-course equivalent in Performance (courses numbered 92, 95, or 99, as in VPA492H). Students may count a maximum of one and one-half full-course equivalents in performance towards the major program.

MINOR PROGRAM IN MUSIC HISTORY
Supervisor: C. Clark (416-287-7191)
Students are required to complete a total of four full-course equivalents in Music. The four courses will be made up as follows:
1. VPA480H Introduction to Music
    VPA490H Materials of Music I
    VPA499H Music of the World’s Peoples
2. One and one-half full-course equivalents from VPA488H to VPA499H.
3. One full-course equivalent from the C- or D-level

See page 199 for the list of courses NOT offered 2001/2002.

Courses which may fulfill the requirements of the Program:
VPA480H Introduction to Music
VPA488H Materials of Music I
VPA489H Materials of Music II
VPA490H Music of the World’s Peoples
VPA493H Materials of Music III
VPA496H Materials of Music IV
VPA497H Music for the Theatre
VPA498H Materials of Music V
VPA499H Materials of Music VI
VPA580H Materials of Music VII
VPA586H Topics in Music and Society in 1600
VPA587H Topics in Music and Society 1650–1800
VPA588H Topics in Music and Society 1800–1900 I
VPA589H Topics in Music and Society 1900–1950
VPA590H Materials of Music II
VPA593H Materials of Music III
VPA594H Materials of Music IV
VPA597H Materials of Music V
VPA598H Materials of Music VI
VPA599H Materials of Music VII
VPA690H Introduction to Ethnomusicology
VPA691H Introduction to the Anthropology of Music
VPA692H Introduction to the History of Music
VPA693H Introduction to the Psychology of Music
VPA694H Introduction to the Sociology of Music
VPA695H Introduction to the Ethnography of Music
VPA696H Introduction to the Ethnology of Music
VPA697H Introduction to the Ethnology of Music
VPA698H Introduction to the Ethnology of Music
VPA699H Introduction to the Ethnology of Music
VPA790H Introduction to the Ethnology of Music
VPA791H Introduction to the Ethnology of Music
VPA792H Introduction to the Ethnology of Music
VPA793H Introduction to the Ethnology of Music
VPA794H Introduction to the Ethnology of Music
VPA795H Introduction to the Ethnology of Music
VPA796H Introduction to the Ethnology of Music
VPA797H Introduction to the Ethnology of Music
VPA798H Introduction to the Ethnology of Music
VPA799H Introduction to the Ethnology of Music
VPA890H Introduction to the Ethnology of Music
VPA891H Introduction to the Ethnology of Music
VPA892H Introduction to the Ethnology of Music
VPA893H Introduction to the Ethnology of Music
VPA894H Introduction to the Ethnology of Music
VPA895H Introduction to the Ethnology of Music
VPA896H Introduction to the Ethnology of Music
VPA897H Introduction to the Ethnology of Music
VPA898H Introduction to the Ethnology of Music
VPA899H Introduction to the Ethnology of Music
VPA990H Introduction to the Ethnology of Music
VPA991H Introduction to the Ethnology of Music
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VPA995H Introduction to the Ethnology of Music
VPA996H Introduction to the Ethnology of Music
VPA997H Introduction to the Ethnology of Music
VPA998H Introduction to the Ethnology of Music
VPA999H Introduction to the Ethnology of Music

Performance Courses
The following performance courses are also available to students on a non-credit basis and are open to all faculty and staff members. Entrance for all participants is by audition. Credit students should register but will not be admitted to the course unless granted permission by the instructor during the first week of classes.

Music Studio
The Studio curriculum is built around the idea that art is a means of expressing and understanding the human condition. It does not exclude courses in commercial or advertising art. The studio experience is intended to expose the student's perception not only of what art is, but of why and how it is made, and to develop the ability to understand and experience the challenges of contemporary art. Critical skills will expand along with practical skills.

MAJOR PROGRAM IN STUDIO
Supervisor: T. Mart (416-287-7317)
This program will give students a full and broad exposure to the various processes of art making and to recent developments in art criticism. It provides some preparation for teaching at the high school or elementary level.

We strongly urge students to take additional art history courses dealing with modern and contemporary art. Students must complete seven full-course equivalents from Studio (see list) including:
1. VPA62H Foundation Studios in Studio
2. VPA66H But Why Is It Art?
3. VPA70H Drawing I
4. VPA71H Drawing II
5. At least one-half full-course equivalent from VPA56H Sculpture Concepts

Performance Courses

VPA Courses Offered in 2001/2002
000 - 11 Art Education
10 - 19 Art Management
20 - 39 Art History
40 - 49 Art History
50 - 59 Studio
60 - 79 Studio
80 - 99 Music

VPA010H Introduction to Arts Management
This course is intended to introduce students to the theories and practices of arts management.
It is a general survey course that will introduce the very broad concepts of arts in society in general and Canada in particular; a brief history of the arts in Canada, particularly its relationship to public policy and political institutions; the various elements of the "ecology" of the arts and culture in Canada, including arts organizations, agencies and the various disciplines; discussions of the various skills that arts
VA842H3 The Study of Visual Art

An investigation of major examples of world art and of the historical and theoretical ideas that have been used to explain them. Students will be encouraged to apply the methods of analysis and writing that they have learned to their own self-critique. There is emphasis upon the cultural, economic, social and political factors that influence the making of art, as well as changing techniques and uses of materials.

Exclusions: FAH100, FYA41Y1

VA844H3 Visual Art in the Modern World

A study of selected works of art from modern to postmodern, with emphasis on the various art movements that have been developed since the early twentieth century. Students will be encouraged to apply the methods of analysis and writing that they have learned to their own self-critique. There is emphasis upon the cultural, economic, social and political factors that influence the making of art, as well as changing techniques and uses of materials.

Exclusions: FYA41Y1

VA845H3 Materials of Music II

The basic materials of music from the Middle Ages to the present. A study of elementary harmony and musical forms designed to equip the student with simple analytical and compositional techniques. Aural aspects of the subject, including sight-singing, will be emphasized, providing a secure foundation for the development of the student's "inner ear" - that is, the ability to hear mentally what is written and to write down what the inner ear perceives. Prerequisite: OAC Music, or equivalent. Note: Students who are minoring in elementary music or music education must take this course as a seminar. Exclusion: EAP805H1

VA846H3 Listening to Music

An introduction to the language of music for non-musicians. Students will be exposed to a variety of musical styles and genres, and encouraged to join in the enjoyment of music on a more meaningful level. Exclusion: MUS100

VA847H3 Music of the World's Peoples

An introduction to the musical cultures of the world's peoples. This course will draw upon the rich cultural history of music in various world cultures. Exclusion: EAP805H1

VA848H3 Repertoire Choir I

The practical study of music from the choral repertoire. This course is for students who have little or no experience in choral singing. In addition to learning choral works, students will be introduced to basic aspects of choral performance. Students who register for this course must register for VA849H1 as well.

Exclusion: EAP805H1

VA849H3 Elementary Music Theory

An introduction to the elements of music theory. This course introduces the student to the elements of music theory, including concepts of melody and harmony, pitch and rhythmic notation, and musical forms. Practical approaches, with harmonic exercises.

Exclusions: EAP805H1, L. Whiting
VPAB0263 Computers and the Arts I
An introduction to the use of computers in the visual and performing arts.
Students will learn broad applications of computer software in the fields of drama, music and the visual arts.
Denominations/aurate will illustrate current standards and future possibilities in the computerized handling of graphics, sound, and video. Projects will allow opportunities for practical experience under the supervision of members of the VPA faculty.
This course is restricted to students in Specialist and Major Programs in VPA.
Additional students may be admitted by the instructor on the first day of classes.
Two hours of lecture per week and three to five hours of individual study in the Lab.
Prerequisites: any 4 F.C.E.'s T. Moran/ T. A.

VPAB0303 Research in the Arts
An introduction to resources and methods for research in the visual and performing arts.
Students are introduced to references works and other research tools as part of a discussion of methodologies for study in the visual and performing arts. The course emphasizes understanding different research models, evaluating sources, and organizing research projects.
The course is restricted to students in Specialist and Major Programs in VPA.
Additional students may be admitted by the instructor on the first day of classes.

VPAB0323 Introduction to Contemporary Cultural Theory
An introduction to the key concepts and issues in contemporary cultural theory. Students will engage with a wide range of theoretical and methodological developments in the study of art and culture, including cultural studies, feminism, and postmodernism. The course will emphasize critical reading, thinking, and writing, encouraging students to develop their own perspectives on the material, and to consider the implications of cultural theory for individuals, organizations, and institutions in the field of art and culture.
Exclusion: (VPAB132)
Prerequisite: any 4 F.C.E.'s A. Stonebridge

VPAB0333 Cultural Pluralism and the Arts I
An introduction to changes occurring in the arts and culture in Canada as a consequence of the country's growing ethnic-racial and cultural diversity.
This is a course about identities and their expression in Canada's arts and culture. Through lectures and discussion students will explore the ways in which majority and minority cultural practices are interrelated, the nature of cultural representation and communication, the character of private and public cultural institutions, and the link between public cultural expression and unequal power relations in society.
Prerequisites: VPAB030, INGB030, or permission of the instructor.

VPAB1013 Workshop in Arts Management I
An introduction to practical arts management skills.
This course is designed to supply arts managers with the skills needed to function in the environment they encounter on work placements. Instruction is provided in the form of seminars and workshops given by practicing members of the arts management profession. Topics to be covered include development (corporate, foundation, individual and special event campaigns), volunteer management, grant planning and writing and project management.
Exclusion: (VPAB110)
Prerequisite: VPAB103

VPAB1213 Financial Management for Arts Managers
An introduction to financial management issues faced by managers in the arts and cultural sector.
The topics covered in the course include an introduction to basic accounting concepts, financial statement preparation and analysis, internal control and management information systems, budgeting and programming, cash and treasury management, and various tax-related issues faced by these organizations.
Exclusions: MGT020Y, MGT030Y
Prerequisites: VPAB101H or VPAB110H or VPAB120H or VPAB140H

VPAB2033 The History of Theatre in: From Classical Antiquity to the Renaissance
A study of the non-literary aspects of theatre from Classical Greek theatre to the Renaissance.
Areas of concentration will include classical Greek and Roman theatre, Western European Medieval Dramatic traditions, and the theatre of the Renaissance, including the commedia dell'arte and the Elizabethan and Jacobean theatre.
Acquaintance with representative plays of the various periods will be required. Attention will also be paid to the socio-political environment of the theatre.

Lecture and tutorials. The text for the course will be History of the Theatre by Oscar Brockett. Other readings will be announced.
Exclusion: ADRA030Y (CRAB120Y), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120)

VPAB2423 Theatre in Canada: An Examination of the Development of Professional Theatre in Canada from 1945 to the Present
A special attention will be paid to the development of the major theatrical festivals, the regional theatre movement, the rise of alternative theatres, and current theatrical trends. Constantin will be given to the work of specific actors, directors, and designers.
Reading materials will be drawn from several sources and selected Drama texts will be used to illustrate theatrical developments.
Exclusion: (ADRA030Y, (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120), (CRAB120)

VPAB2523 Introduction to Asian Theatrical Traditions
The students will be introduced to some of the major theatrical traditions of Asia.
The principles of Chinese theatre from the Yuan and Ming Dynasties, and of the Chinese theatre (Beijing Opera) will be surveyed, as well as the three major Japanese forms of theatre, Noh, Kabuki, and Kabuki. The wayang puppet theatre of Indonesia will also be studied. Other topics will include the great Sufi Shakespearean plays of India, and forms of Indian dance theatre, such as the Kathakali.
Students will read translations of plays and study some of the theoretical aspects of Oriental theatre in lectures and seminars. Recorded and visual materials will be used extensively.
M. G. Scheidberg

VPAB2623 The Art and Nature of Comedy
A study of the comic form in the theatre and film.
The student will read plays by the masters of comic drama and view films that are classics in the history of comic cinema.
Representative theatrical works will be studied with reference to the political and social aspects of comedy.
The types of comedy explored will cover a wide range of works from farce to burlesque to comedy of ideas, political and literary satire, and the comedy of the absurd.
The course will be taught in lectures and seminars.
Exclusion: (DRAB105Y)
M. G. Scheidberg

VPAB3133 Intermediate Workshop in Theatre Performance
This course is designed to enable advanced students to concentrate on problems related to the staging of plays in studio situations.
A portion of the course is devoted to work with TV video equipment. A minimum of three hours weekly in formal groups, and additional time in rehearsal, will be devoted to advanced exercises in acting skills, scene work, and work on productions.
Exclusions: (DRAB120Y, (VPAB120)
Prerequisite: VPAB130Y and interview P. Spindler

VPAB3233 Technical Production
An introduction to the fundamentals of the technical production process.
Students will study the essentials of production and stage management, theatre management, set building and painting, stage lighting, and sound design. As part of the course, students will also assume responsibility for some of the technical and production positions available in college productions.
Exclusions: (DRAB120Y)
Pre-or Co-requisites: VPAB130Y (CRAB120)

K. Wright

VPAB3333 Exploring the Live Theatre II
Discovering the relationship of plays and playhouses.
Students will attend five or six productions, write reviews and consider the various physical spaces in which drama may be performed.
Prerequisite: VPAB130Y or permission of the instructor.
T.B.A
VPAA5410 Human Figure in Greek Art (W. & C. Cantor/Teaching Art)
This course considers representation of men and women, shown singly and in intercursive scenes in sculpture and fine painting, two of the richest media in Greek art. Study of these often beautiful portrayals of people in action can reveal curvatures of myth and legend, and reflect on everyday life in Greece. If we meet the challenge of deciphering their intriguing pictorial language, they also reveal social values such as the perception of gender, and can allow us to reconstrue various aspects of ancient society for which information may be missing in the literature.
Exclusions: FARB40Y
Prerequisites or Corequisites: Any course in art history or VPAA445H
F.R.A.

VPAA445H Carolingian and Romanesque Art and Architecture
A survey of the art and architecture of Europe from 800 to 1150, considered in light of the varied artistic developments of the contemporary Mediterranean world. The course will consider the major artistic and architectural movements of Europe from the Carolingian renaissance to the renaissance of the twelfth century. Works will be considered in their geographical context and in relation to the art and architecture of the late Roman Empire, Byzantium and Armenia, Islam, and to the art of the period of the invasion. The importance of manuscript and illumination will also be discussed. Texts: E. Kitzinger, Early Medieval Art; D. Zarchos, Carolingian Art: K. C. Canman, Carolingian and Romanesque Architecture
Exclusions: FARB21, FARB31 (FARB106)/
Prerequisite: VPAA441H highly recommended
L. Varga-Cerven

VPAA4460 Impressionism
A study of Impressionism as a turning point in Western art. The rapidly expanding city of Paris, with its great boulevards and vast, open public space, was a major meeting place of the world in the second half of the nineteenth century. Paris housed the economic and artistic resources of this international center. The Impressionists, however, turned toward the city as a source of inspiration. The members of the group, in particular Monet, Pissarro, Morisot, Renoir, and Monet, will be discussed in detail. Text: Robert L. Herbert, Impressionism: Art, Leisure and Parisian Society, Yale 1988 (soft cover).
Exclusions: FAHE78, (FARB43H)
T.B.A.

VPAA447Y Art in North American Cultures
Uses and characteristics of art within the tremendously varied contexts of First Nations, colonial and post-colonial cultures in North America. This investigation explores selected cultural movements from the last three hundred years. Recommended: Courses in Canadian, Mexican and/or U.S. history useful but not required.
L. Curley

VPAA510H Art, the Museum, and the Gallery
A course about art and the settings in which it is seen in cities today. The topics will vary from year to year, but some or all of the classes will take place in a Toronto museum or gallery. This will give direct insight into current exhibition practices and into the ways that these practices, as well as the institutional settings themselves, affect viewers' experiences of art.
Prerequisites: One-half F.C.E. from: VPAA445H, VPAA447Y, VPAA460Y, VPAA461H
F.R.A.

VPAA530H Medieval Art
A survey of European architecture, sculpture, painting, illumination, and minor arts from the late Roman Empire to the end of the Middle Ages.
The course examines the origins of European artistic traditions in the early Christian, Mediterranean world; how these traditions were influenced by classical, Byzantine, Muslim and pagan forms; how they developed in an entirely new form of artistic expression in the high Middle Ages; and how they led on to the Renaissance.
Exclusions: FARB61L, (VPAA43)
Prerequisite: VPAA440H recommended
M. Germent

VPAA540H Renaissance and Baroque Art
A survey of architecture, painting, and sculpture from 1400 to 1750.
The course will present important movements, primarily from Italy and the Netherlands.
Exclusions: FARB274, FARB279, (VPAA44)
Prerequisite: VPAA440H recommended
F.R.A.

VPAA566H Religion and the Arts I
How the arts give expression to spiritual belief and reflect the institutionalizing of those beliefs in religion around the world; a selected topics course.
Topics will normally be defined by a particular religious tradition.
F.R.A.

VPAA567H Women and Visual Art
The influence of feminism in making and understanding art in the last 150 years.
Using informal lectures, the course discusses women artists and their relationship to "mainstream" art. It also studies the impact of feminist theory on art movements and the changes they have engendered.
Exclusions: FARB59Y
Prerequisites: WSTA40Y or VPAA44Y (FARAOY) or (FARAIH) or VPAA461H (FARAH1H) or VPAA46H or permission of the instructor.
L. Curley

VPAA591H Painting I
An investigation of the basic elements and concepts of painting through experimentation in scale and context.
The course is designed to expose the student to current concepts in painting. Work will be based on assignments designed to expand the students' understanding of "painting." Discussions of work will be held regularly. Students will be required to write on topics that will be assigned during the term.
The course will be based on the concepts and issues raised in group discussions and lectures. Discussions of the work will be held regularly on both an individual and group level. Students will be required to write two critiques on contemporary site-specific work.
The course will be based on the concepts and issues raised in group discussions and lectures. Discussions of the work will be held regularly on both an individual and group level. Students will be required to write two critiques on contemporary site-specific work.
Three hours of instruction per week and three to five hours of individual study in the studio.
Limited enrolment: 20
Exclusion: VPAB87Y
Prerequisite: VPAA440H
Corequisite: VPAB870H

VPAA592H Painting II
A continuation of Painting I with an emphasis on images and concepts developed by individual students.
Students will be encouraged to expand their ideas of painting through the production of work and discussions of current ideas in class.
Discussions of work will be held regularly in class. Students will be required to write on topics that will be assigned during the term.
Three hours of instruction per week and three to five hours of individual study in the studio.
Limited enrolment: 20
Exclusion: VPAB87Y
Prerequisite: VPAA461H
Corequisite: VPAA464H

VPAA593H Sculpture Concepts
An investigation of the changes in sculpture in the 20th century with an emphasis on contemporary art.
The course will familiarize the student with recent concepts in sculpture. Current explorations of space, time and motion will be discussed.
The course will have a lecture/discussion format with each student leading a discussion. Students will also be responsible for a number of writing assignments and objects dealing with assigned problems. Texts may include Rosalind E. Krauss' "Passages in Modern Sculpture."
Three hours of lecture/meeting per week and three to five hours of individual study in the studio.
Limited enrolment: 15
Exclusions: VPAB79Y
Prerequisite: VPAA468H or permission of the instructor.
J. Høgebraten

VPAA595H The Specific Work
An exploration of the object and its relationship to specific space.
The course is designed to give the student an understanding of the historical and contemporary aspects of work created for a specific place and time. Through group and individual projects, the student will have an opportunity to explore the problems and consequences of creating a piece that can only exist in a particular space and time. The student's work will be based on the concepts and issues raised in group discussions and lectures. Discussions of the work will be held regularly on both an individual and group level. Students will be required to write two critiques on contemporary site-specific work.
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The course will be based on the concepts and issues raised in group discussions and lectures. Discussions of the work will be held regularly on both an individual and group level. Students will be required to write two critiques on contemporary site-specific work.
Three hours of lecture per week and three to five hours of individual study in the studio. Limited enrollment: 10.
Prequisites: VPA0060Y or permission of the instructor.

D. Holman

VPA866H3 Topics in Music and Society in 1800
Music in society: selected topics from the period up to 1800.
Using a thematic rather than a chronological approach, this course will examine Western music within the period from the point of view of style and structure; social, cultural, economic, and historical context; aesthetic significance and reception; and current critiques of interpretation. The emphasis will be on introducing students to a wide variety of approaches to the study of music.
Prequisites: VPA098H & VPA009H
J. Major

VPA886H3 Topics in Music and Society after 1900
Exploring the world of popular music and the world of art music, this course will examine Western music within the period from the point of view of style and structure; social, cultural, economic, and historical context; aesthetic significance and reception; and current critiques of interpretation. The emphasis will be on introducing students to a wide variety of approaches to the study of music.
Prequisites: VPA098H & VPA009H
C. Clark

VPA706H3 Electronic Media
An introduction to the possibilities of electronic media in the visual arts.
Students will be engaged in projects designed to develop skills in the concept and production of electronic media as a tool for art making. Students will be introduced to the basic elements of electronic music and video. Prequisites: VPA0060Y or permission of the instructor.

T. Mars

VPA868H3 Introduction to Lithography
An introduction to black and white stone lithography including a detailed investigation of materials and techniques.
The courses will include demonstrations and lectures covering the technical aspects of the medium. Students will be required to pass a test on procedures and exposure to the medium before working in the class. Prequisites: VPA0060Y or permission of the instructor.

A. Rapoport

VPA868H3 Concert Band II
A continuation of VPA068H.
Prequisites: VPA0060Y or permission of the instructor.
D. Holman

VPA885H3 Music for the Theatre
An introduction to how music is combined with other arts in the theatre.
Multi-media shows in the theatre are a popular form of entertainment. In a study of representative examples (including ballets, films, musicals, and operas) this course will focus on the relationship between the individual arts. The selected works will be considered not only for their musical and dramatic qualities, but also in terms of the creative process. In addition, the course will examine the production and performance traditions. Students will study audio-visual records and, when possible, live performances. No previous musical experience is required.
Exclusion: MUS1103
C. Clark

VPA869H3 Repertoire Choir II
A continuation of VPA069H.
Prequisites: VPA009H
Exclusion: VPA009H
L. Winning

VPA869H3 Popular Music
An examination of the genres and history of Western popular music with particular attention to its social and commercial contexts.
Prequisites: VPA0060Y or permission of the instructor.

VPA886H3 Current Issues in the Visual and Performing Arts
An exploration of selected topics pertaining to the visual and performing arts.
This course focuses on current issues of general interest to the arts community. In seminars, lectures, and workshops, students are encouraged to integrate ideas from their study and practical experience of the individual art form, and to develop an interdisciplinary perspective.
Exclusion: VPC100Y
Prequisites: VPA0050Y or permission of the instructor.

VPA871H3 Strategic Planning in the Arts and Cultural Sector
This course is designed to provide the unique financial and environmental challenges that confront arts and cultural organizations, and to develop a strategic approach to dealing with these issues. Through case studies, seminars, and lectures, we will examine issues such as artistic, institutional, programming, production and distribution, human resource management, financial management, marketing and development, and governance in performing and exhibiting organizations and the cultural industries.
Exclusions: MGT140H
Prequisites: VPA101H
T. B.A.

VPA110H3 Cultural Policy: National and International Perspectives
A survey of the structures and patterns of cultural policy and arts funding, both nationally and internationally.
The course will focus initially on the history and development of cultural policy in the Canadian context, and will explore current policy issues in Canadian art and culture. The course will also examine policy structures and issues in several other countries, including the United States, Great Britain, and Australia. The course will be an integrative case study of comparative analysis of cultural policy and arts leadership examining the strengths and weaknesses of particular policy and funding structures.
Exclusion: VPC101Y
Prequisites: VPA0050Y or permission of the instructor.
A. Rapoport
196 Visual and Performing Arts

VPAC451H5 Advanced Workshop: Performance and Directing
Detailed crash analysis, in-depth study and elements of directing for the stage in a studio setting. Detailed study of a play which will be produced in the second term. The course will include work on theatrical techniques in areas such as period style, masks, improvisation, etc.
Students are expected to participate in a major production generated by the class, as well as on specific assignments related to the work in the course. They will also work on projects according to their individual area of interest.
Exclusion: DRM400
Prerequisites: VPAC311Y (VPAC307) and interview
M.G. Schonberg

VPAC454H5 Seminar in Twentieth-Century Art
Special topic in twentieth-century painting and sculpture. The subject will change from time to time. After introductory sessions outlining the subject and ways of getting information about it, seminar members will research and present topics of their choice.
Prerequisite: One full-course equivalent in modern art history at the B-level or permission of the instructor.
L. Curney

VPAC455H3 Topics in Art of the Ancient World
A special topics course in ancient art and architecture.
A concentrated study of a particular topic in ancient art, which will change from year to year.
Prerequisite: VPAC52H3 (VPAC42H) or permission of the instructor.
T.B.A.

VPAC456H3 VPAC457H3 VPAC458H3 VPAC459H3 VPAC460H3

VPAC457H3 Seminar in the Eighteenth Century
A seminar in the Eighteenth Century, with a focus on specific topics within the period.
Prerequisite: One full-course equivalent in modern art history at the B-level or permission of the instructor.
T. B. A.

VPAC458H3 Theory and Practice I
An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.
Though a process of seminars and production, students will concentrate on many of the problems, both practical and theoretical, in two-dimensional work and its exhibition.
Prerequisite: At least 0.5 credit in a B-level course dealing primarily with two dimensions.
J. Hoogstraten

VPAC459H3 Theory and Practice II
An exploration of ideas and practice with an emphasis on three-dimensional and time-based work.
Through a process of seminars and production, students will concentrate on many of the problems, both practical and theoretical, in three-dimensional and time-based work and its exhibition.
Prerequisite: At least 0.5 credit in a B-level course dealing primarily with three dimensions or time-based work.
J. Hoogstraten

VPAC460H3 Opera
The history of opera from its inception to the present day.
Through detailed study of representative examples from the operatic repertoire and discussion by contemporary critics, this course focuses on the changing conception of the genre, particularly as it is revealed in the music and libretto.
Exclusion: MUSC404
Prerequisite: VPAC461 and one course from the series VPAC311-VPAC319 or C. Clark

VPAC574H5 Handel
A study of Handel's compositions in the context of eighteenth-century society and culture.
This course will study representative examples of all the major genres in which Handel composed. Emphasis will be placed, however, on the unique synthesis of genres that is to be found in Handelian arias. Among the works to be studied will be Saul and Jephtha. Consideration will be given to the ways in which English emotions meet the needs of a rapidly changing society and to the effects, both positive and negative, that it had on the development of English music in the nineteenth century.
Prerequisite: VPAC450H3 and one half-course equivalent from the series VPAC451-VPAC459H
J. Moro

VPAC598H3 Materials of Music III
A continuation of VPAC498H.
Prerequisite: VPAC498H
A. Rapoport

VPAC608H3 Concert Band III
A continuation of VPAC608H.
Students in this course meet three hours per week, two hours with students of VPAC480H and VPAC489H and one hour in a seminar. In the seminar the elements of instrumental directing and conducting are introduced.
Prerequisite: VPAC482H
L. Smith

VPAC609H3 Concert Choir III
A continuation of VPAC608H.
Students in this course meet three hours per week, two hours with students of VPAC480H and VPAC489H and one hour in a seminar. In the seminar the elements of choral directing and conducting are introduced.
Exclusion: VPAC591H
Prerequisite: VPAC480H
L. Whiting

VPAD011H3 Seminar in Visual and Performing Arts
A seminar on selected issues, theories and critical concepts in the areas of the arts.
Topics vary. The Supervisor can advise students on the topic chosen for a given year.
Prerequisite: 10 F.C.E.'s from the Specialist program in VPA.
Staff

VPAD001H5 Project in Visual and Performing Arts
A collaborative project involving various arts and media, to be carried out by students in the final year of the Specialist Program in Visual and Performing Arts.
The character and themes of the project will vary from year to year. The Supervisor can provide more information.
Prerequisites: 10 F.C.E.'s from the Specialist Program in VPA.
T.B.A.

VPAD199H3 Senior Seminar in Art Management
A synthesis of students' prior academic studies and applied co-op work experience as they prepare to enter the world of arts management.
This course is intended for Arts Management students who have completed at least one, preferably two work terms. Each student will give at least one seminar dealing with a chosen research project and their work turn report from a placement. The course will also include a seminar program which links students to arts managers, and seminars by practising professionals in the arts and cultural sector.
Exclusion: VPAD197Y
Prerequisites: COPC101H (VPAC123H) S. Crawford

VPAD139H3 Art, Culture, and Policy
An exploration of recent critical issues in cultural policy and arts management.
Drawing on a range of recent work in cultural studies, cultural policy studies, sociology, art history, and museum studies, this course will enable students to synthesize and develop their prior knowledge of cultural theory and cultural policy. Using a case study approach, the course will examine issues and controversies in both the performing and visual arts, addressing questions of cultural value, cause formation, cultural appropriation, and institutional policy.
In addition to Arts Management students, the course will be of value to other VPA students with an interest in issues of cultural theory and policy.
Exclusion: VPAD197Y
Prerequisite: VPAC151H
A. Sandridge
COURSES NOT OFFERED 2001/2002

Women's Studies

Women's Studies (B.A.)

Faculty List

C. Renard-Loingas, L.L.S. (Paris), Ph.D.
Wayne State, Professor Emerita (French)

R.P. Thompson, M.A., Ph.D. (Toronto),
Professor (Philosophy)

L.J. Aruty, M.A. (McMaster), M.M., Ph.D.
Yale, Associate Professor (History)

J. Birkby, M.A. (Calgary), Ph.D. (UBC),
Assistant Professor (Anthropology)

L. Cattini, M.A. (Colombia), Associate
Professor (Film Art History)

M.C. Cuddy-Katze, M.A., Ph.D. (Toronto),
Assistant Professor (English)

P.C. Hoot, B.A. (National Chung-Hsing
University, M.A. (Chinese Cultural
University), M.A. (California), Ph.D. (California), Associate Professor
(Sociology)

F. Jacobs, M.A., Ph.D. (York, Canada),
Assistant Professor (History)

D. M. Jones, M.A. (Concord), Ph.D.
(Michigan), Associate Professor
(Linguistics)

L. Langs, B.A., M.A. (Maastricht), Ph.D.
(Toronto), Associate Professor (Philosophy)

D. M. Lee, M.A., Ph.D. (Toronto),
Associate Professor (Anthropology)

A. Selby, B.A., M.A. (Windsor, Ph.D.
(York, Canada), Associate Professor
(Sociology)

P. Spence, M.A., Ph.D. (Toronto),
Assistant Professor (Visual and Performing Arts)

R.B. Sperandio, B.A. (York, M.A.
(UCI), Assistant Professor (Sociology)

C. Clark, M.A., M.A. (Toronto), Ph.D.
(Cornell), Assistant Professor (Film & Performing Arts)

M. Goldfarb, M.A. (Vancouver), Ph.D.
(Toronto), Assistant Professor (English)

C. Gobert, B.A. (Manitoba), M.E.
(Toronto), Instructor

J. Hoogestraat, B.A. (Manitoba), Senior
Lecturer (Film Art History)

T. Mars, Senior Lecturer (Visual & Performing Arts)

D. McCarthy, B.A. (Toronto), Senior
Associate
The Minor Program in Women's Studies

The Minor Program offers a more concentrated course of study designed primarily for students who wish to concern their Women's Studies course work into a particular area.

Students must select four full-course equivalents as follows:

1. WSTAI01Y Introduction to Women's Studies
2. WSTBI1H Current Research on Women's Issues
3. One and one-half full-course equivalents from the list below:
   - WSTBI1Y Race, Class and Gender
   - WSTBI2H Women, Issues of Violence and Safet
   - WSTBI3H Women and the Media
   - WSTC02H Women and Environment
   - WSTC03H Special Topics in Women's Studies and Gender Issues

* Indicates students should check if topics of the year have significant elements pertaining to women.
** Not all courses are offered every year.

Supervisor of Major and Minor Programs:
L. Carney (416-287-7171)

THE MAJOR PROGRAM IN WOMEN'S STUDIES

The Major Program is designed to provide students with the substantial body of scholarship and the critical concepts and methodologies used to examine women's issues in the major academic disciplines.

Students must select seven full-course equivalents as follows:

1. WSTAI01Y Introduction to Women's Studies
2. WSTBI05H Core Seminar on Women's Issues
3. One and one-half full-course equivalents from the list below:
   - WSTBI1Y Race, Class and Gender
   - WSTBI2H Women, Issues of Violence and Safety
   - WSTBI3H Women and the Media
   - WSTC02H Women and Environment
   - WSTC03H Special Topics in Women's Studies and Gender Issues

* Indicates students should check if topics of the year have significant elements pertaining to women.
** Not all courses are offered every year.

Supervisor of Major and Minor Programs:
L. Carney (416-287-7171)
Admissions

Re-enrolling University of Toronto at Scarborough Students
Students previously registered at University of Toronto at Scarborough who wish to return (or have returned by March 1) must submit an "Application To Re-Enroll" at Registrarial Services, Room S305. As enrollment in MOST courses is on a first-come, first-served basis, students are strongly advised to apply to re-enroll by April 1. For further information, telephone 416-287-7001. See also the Admission Information section of the Registrarial Services website.

Admissions

Admissions to the 2001 Fall/Winter Session:

Application Deadlines

Students are strongly advised to submit application forms well in advance of the following deadlines. In particular, students to the Co-operative Program should apply before March 1 to allow sufficient time to obtain and complete the co-op supplementary application that must be returned by March 1 for early consideration; the final deadline is April 1.

Application to the 2001 Spring Session:

Term I (beginning mid-May) - March 15
Term II (beginning in July) - May 15

NOTE: Visiting Students applying from other universities on a Letter of Permission may be considered after these dates provided space is available. Telephone 416-287-7529 to inquire.

Admissions

Admissions to the 2001 Full/Winter Session:

Full-time study - April 1
Part-time study - June 1

Course in September. Unenrolled students may apply by the above deadlines.

Special Students in Management

Applications to the 2001 Fall/Winter Session:

Applications for international students applying from outside Canada/USA should be submitted by June 1.

General Admission Requirements for University of Toronto at Scarborough for 2001-2002

Requirements for Admission to the University of Toronto at Scarborough for 2001-2002

Applicants from Ontario Secondary Schools

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six (6) Ontario Academic Courses (OAC's).
- One credit must be in English Language.
- The course must be completed by March 1.
- Applicants must satisfy English Facility Requirements.

NOTE: Details of admission requirements for students who will be graduates of the New Ontario High School Curriculum will be posted on our website.
English Faculty Requirements
Applicants may request the English Faculty Requirements brochure from Admissions and Awards. Telephone 416-978-2190.

1. Proof of adequate English facility is required of all applicants except for those: (i) whose first language is English, or (ii) who have studied full-time for at least four years in an English language school system located in a country where the first language is English, or (iii) whose first language is French and have studied for at least four years in the Canadian school system.

2. Applicants who are required to present proof of English facility shall be exempt from the normal admission requirement of having to present OAC English 1 (or equivalent course). Such applicants are, however, encouraged to learn English in their preparation for university. If OAC English 1 is completed as an extra credit, applicants will not be penalized by having the mark included in their admission average if the grade is low.

3. One of the following tests and scores will be accepted by the University of Toronto as satisfactory proof of English facility:
   - The Test of English as a Foreign Language (TOEFL, PBT) and the Test of Written English (TWE) or the TOEFL Computer-based Test (TOEFL CBT)
   - Minimum requirements:
     TOEFL PBT: total score of 600 and 5.0 on TWE
     TOEFL CBT: total score of 250 and 5.0 on CBP

   Michigan English Language Assessment Battery. The minimum requirement is an overall score of 65 with no part score below 6.

   International English Language Testing System (IELTS). The minimum requirement is in one band of 6.5, with no band below 6.

   Certificate of Proficiency in English (COPE)
   The minimum requirement is an overall score of 5 with 2 in Writing and 1 in Reading and Listening.

   NOTE: For an applicant who scores just below the minimum requirement, the University may consider other academic evidence of English proficiency (for example, results in English courses).

Prerequisites
Students should choose OACs that will fulfill the prerequisites for university courses they intend to take. Review UTSC brochures or consult with Admissions and Student Recruitment Staff also see the chart that follows at the end of this section.

Admission by Equivalent Courses
The certificates listed below are considered acceptable for admission consideration. Applicants should consult the chart at the end of this section which describes specific OAC course requirements and take equivalent courses to meet prerequisites.

For programs that require OAC calculus, applicants must complete an equivalent course that covers the geometric notion of a limit, the differentiation and integration of elementary functions to provide them with a geometric grasp of differentiation and integration.

Applicants From Other Canadian Provinces and Territories
- Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Nova Scotia, Prince Edward Island, Saskatchewan, and Quebec
- 12 academic C.S.G.B.P. courses (Transfer credit is granted to candidates who have completed more than the 12 academic required courses.)

NOTE: Those who completed their high school studies in Canada in 1983 or earlier should contact Admissions and Awards before applying to check entrance requirements.

Admission with Transfer Credit
Students who have completed work at other universities or at other Faculties or Schools of this University may be considered for admission with advanced standing credit.

Entrance credit for transfer credit may be considered for admission with advanced standing credit. The academic standing credit is limited to a maximum of 15 semester credits awarded at the lower level courses.

Subject to grade, and program requirements, any course offered for transfer credit one university shall be accepted for credit by another university when there is virtual equivalency in course content.

Note that students who are transferring to the University of Toronto at Scarborough will be required to complete at least half of their degree credit and half of their program requirements as University of Toronto at Scarborough students. Students transferring from other division of the University of Toronto are exempt from this degree requirement. Limits on transfer credit upon admission still apply. Students must consult with the Program Supervisor before taking courses required for the program at another campus.

Applicants from Ontario Colleges of Applied Arts and Technology (CAAT)
1. Candidates who have completed a two-year CAAT diploma program with sufficient academic content (or two years of a three-year CAAT diploma program) are eligible for admission for the first year of a degree program. Up to two transfer credits will be considered.
2. Candidates who have completed a three-year CAAT diploma program are eligible for admission for the first year of a degree program. Up to five transfer credits will be considered.
3. Candidates who have completed a one-year CAAT diploma program (or one year of a two- or three-year CAAT diploma program) are normally not eligible for consideration for admission. (Mature students who are at least 21 years of age should contact Admissions and Awards.)

They must qualify for consideration by completing 6 Ontario Academic Courses or equivalent.

Applicants Holding The International Baccalaureate Diploma
Candidates who have completed the Diploma with at least 12 points from the higher level subjects and 24 points in total, may be considered for admission with advanced standing credit for the most high level subjects completed with a grade of 5, 6, or 7.

Applicants From the United States of America
Candidates who have completed Grade 12 from an accredited high school with a high grade point average and good scores on the SAT Reasoning Tests and three (preferably) SAT II subjects Tests will be considered. ACT and Advanced Placement (AP) examinations will also be considered. Transfer credit is awarded for some AP examinations.

Applicants With Other Qualifications
Candidates who wish to apply for admission based on the basis of work completed in other countries or on the basis of other qualifications should check our website or write to Admissions and Awards, outlining their academic qualifications and intended area of study. Information on admission requirements for applicants from overseas is contained in the Undergraduate Admission Regulations available from Admissions and Awards.

Mature Students
Applicants who do not hold the published admission requirements may be considered for admission if:

1. They are at least 21 years of age by July 15 of the Summer Session or by October 1 of the Fall/Winter Session, and
2. They have been resident in Ontario for a minimum of twelve months by the above dates, and
3. They are a Canadian Citizen or Permanent Resident of Canada or a Convention Refugee claimant as described above (see Status in Canada) and
4. They achieve high standing in one of the following: (a) one of Woodsworth College’s Pre-university courses, or (b) one of Woodsworth College’s Academic Bridging Program courses, or (c) two OAC’s completed after the student is 21 years old.

One OAC must be English OAC 1. You must not have attempted any degree level academic work (or equivalents) at post-secondary institutions such as a university or polytechnic institute. You must not have completed more than two years of full-time studies in a College of Applied Arts and Technology (or equivalent).

Students must receive permission from Admissions and Awards to qualify using the two OAC option or from Woodsworth College (599-8454) of the University of Toronto to qualify for consideration using other options. Therefore, consult before applying to any of these courses. Students who wish to propose for certain university programs such as science programs may have to take additional courses to ensure all of the prerequisites will be attained.

NOTE ABOUT STATUS IN CANADA: An applicant who wishes to qualify as a Mature Student must be one of the following: (a) a Canadian Citizen or Permanent Resident, or (b) officially recognized as a Convention Refugee admitted and remaining in Canada, or (c) a Refugee Claimant who has applied to the federal government for Convention Refugee status prior to January 1, 1989.
### How Decisions Are Made

The specific average or standing required for admissions varies from year to year. Students are selected by taking into consideration a wide range of criteria including school marks, distribution of subjects taken, performance in subjects relevant to the academic program selected, and, for applicants to co-operative programs, supplementary information obtained through the co-operative program application. While the University of Toronto recognizes that there may be valid reasons for a student to repeat a course, in general we urge students to do as well as possible on their first attempt. In considering students for admission and scholarships, the University reserves the right to give preference to students whose marks are the result of a single attempt at each course.

In cases of limitation of space, preference will be given to applicants with the best qualifications. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates must offer written evidence of exceptional ability, or of extenuating circumstances.

Applicants who matriculated prior to the current year are advised to telephone or write to Admissions and Awards for information. The University of Toronto reserves the right to determine whether or not credentials of degree-granting institutions in Ontario meet the standards for admission to University of Toronto programs.

#### Secondary School Prerequisites

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*Note: The University of Toronto does not require specific, exact prerequisites. However, courses which develop writing, analytical and problem-solving skills are important.*
Awards

Unless specified, the following awards do not require an application. All UTFS at Scarborough undergraduate degree students with excellent academic standing are considered. Where deadlines are not specified, apply to Admissions in Room S3008, and check the bulletin board in the Meeting Place. Also check the UTsc website for announcements.

The official award records are in the file in Room S3008. UTSc at Scarborough students are also eligible for consideration for other general University of Toronto scholarships and bursaries or grants in addition to the awards listed below. Students should review the "Awards" section in the Advising and Career Center, Room S302. Scholarship Inquiries: 416-284-7329, Bursary/Gift Inquiries: 416-287-5000.

A general condition for holding an entrance or in-course award is that the student must register at the University of Toronto at Scarborough in the following academic year with degree status. Students who have been awarded a scholarship, which is based on enrollment in a particular program of study, must continue in that program to receive the award. UTSc at Scarborough reserves the right to award a scholarship, if, in a particular year, the academic achievement of the candidate is not of high standard. For graduation awards, students who graduate in the fall convocation are considered for awards at the following spring convocation in competition with the spring graduates. Students who graduate with three-year degrees are not considered for in-course awards.

Ontario Student Opportunity Trust Fund Awards (OSOTF)

To qualify for consideration for awards listed below which are described as OSOTF awards, students must qualify for consideration for the Ontario Student Assistance Program (OSAP).

Admission Awards

NOTE: This book is compiled in March. Check our website in September for updates or changes to the scholarships listed below.

UTSc allocates entrance scholarships to students entering first year directly from secondary school. A limited number of entrance awards are also available to students transferring from other universities with outstanding academic achievement. For need-based awards, applicants must complete a University of Toronto Access Program (UTAP) application, which is mailed automatically to all applicants who are Canadian Citizens or Permanent Residents of Canada. Successful applicants will be notified of awards received at the time they receive an offer of admission to the University.

In considering students for scholarships, the University reserves the right to not give preference to students whose marks are the result of a single attempt at each course.

The National Scholarship Program

The University of Toronto National Scholarships will be awarded to students who demonstrate superior academic performance, original and creative thought, and exceptional achievement in a broad context. The National Scholars will be those who not only excel in academic pursuits but also have an enthusiasm for intellectual exploration and an involvement in the life of their school and community. Each secondary school is invited to nominate, on the basis of these criteria, one graduating student to receive a University of Toronto National Book Award. The winners of the Book Awards, and only these students, may enter the National Scholarship Competition.

Information and applications are sent to secondary schools. Applications will not be sent to individual students since nomination by the school is required. At least fifteen and up to twenty of the finalists will be identified as University of Toronto National Scholars. The National Scholarship will range in value from $7,500 to $12,500 each year for four years of undergraduate study. The actual value of each student's scholarship will be determined on the basis of his or her financial circumstances.

University of Toronto Scholarships Program

This program recognizes outstanding University of Toronto students in any first degree course, both on admission and during their course of study. Approximately 120 outstanding admission applicants are selected as University of Toronto Scholars. These awards have a value of $3,000 and may be held in any program study at the University, in conjunction with admission awards that the students may receive from their faculty/college.

Awards under the University of Toronto Scholarships Program are renewable. Outstanding students, however, will be eligible for consideration for University of
Frank M. Waddell Scholarship
Awarded to a student from Brant County, Ontario on the basis of academic excellence. Application required. Submit a letter indicating how the Brant County condition is met to Waddell's Scholarship, Admissions and Awards, 315 Ross B.W., Toronto ON MSS IA3 Deadline: April 30

In-course awards
It is the practice of the University of Toronto at Scarborough Awards Committee to permit a student to hold only one major award to allow the opportunity for more students to be recognized for excellent achievement. Undergraduate degree students are considered for in-course awards after the 7th, 10th, and 13th full credit is completed. Most award decisions are made in late summer for students who are eligible for consideration after the fall, winter and summer sessions.

University of Toronto Scholarships Program - In-Course Scholarships
Awarded under the University of Toronto Scholarships Program are not renewable. Outstanding undergraduate degree students, however, will be eligible for consideration for University of Toronto (In-Course) Scholarships at the end of the first, second and third year of their program. As of Fall at Scarborough, there are about 15 scholarships at each level. These in-course awards are worth $1500 and are taxable with other in-course scholarships.

A. D. Allen Scholarship
Awarded to the outstanding student in each year at University of Toronto at Scarborough, in any field of study. The scholarships are awarded in memory of Dr. A. D. Allen, a former principal of UTSC.

Vince Bladen In-Course Scholarships
Two scholarships for each of first, second and third year are awarded on the basis of exceptional academic achievement. The scholarships are awarded in memory of Professor V. Bladen, a former member of the faculty in Economics.

University of Toronto at Scarborough In-Course Scholarships
Awarded to the outstanding students in each year at UTSC.

University of Toronto at Scarborough Scholarship in Arts and Science - See Need-Based Awards for description

University of Toronto at Scarborough Student Council Pitts Award
Awards to a student in good academic standing entering the second, third or fourth year who has made an outstanding contribution to the Academic, Social or Cultural life of UTSC at Scarborough. Application or nomination required. Deadline: September 28

South Asian Alliance In-Course Award
Awarded to a student entering second, third or fourth year on the basis of academic merit and participation in UTSC extracurricular activities that enhance community spirit. Application or nomination required. Deadline: September 28

Joan E. Foley Award
Awarded to a student, alumni/ae, administrative staff member or faculty member who has made a significant contribution toward improving the quality of academic or extracurricular student life on campus. Sponsored by the University of Toronto Alumni Association. Nomination required. The deadline is normally in December.

Neil H. Dobba Award
Awarded to a student on the basis of financial need. Academic merit will also be considered.

OSAPTP

Stanley Krats Todorow Scholarship
Awarded on the basis of academic excellence to one or more students registered in a Life Sciences or Physical Sciences program that leads to a Bachelor of Science degree.

Norman F. Brown Memorial Award in Humanities
Awarded to a student excelling in the second or third year of a program in the Division of Humanities on the basis of excellent academic achievement.

The Hudson's Bay Company Scholarship
Awarded to the student who has demonstrated the highest academic achievement at the end of third year.

Gistichert Pitts in Science
1. One prize will be awarded to a student entering the fourth year of the Specialist Program in Cell and Molecular Biology.
2. One prize will be awarded to a student entering the fourth year of a Specialist program in Computer Science.
3. One prize will be awarded to a student entering the fourth year of a Specialist program in Environmental Sciences.
Preference will be given to students who have completed at least 10 of the F.C.E.'s required for the program with excellent standing.

Natal Institute Undergraduate Scholarship:
The scholarship is open to students in second or third year in the Faculty of Applied Science and Engineering, the Faculty of Arts and Science and UTES on the basis of financial need, academic merit and an essay. Application required. Deadline: November 1

The Rouge Watershed Scholarship:
Awarded to a student enrolled in an environmental science, ecology or geography program on the basis of excellent academic achievement, strong interest in environmental issues and active participation in environmental projects within the university or community. Application Required. Deadline: April 10 (OSOTF)

The University of Toronto Women's Association Lola Dove Memorial Scholarship:
Awarded to a student on the basis of excellent academic achievement in the third year of a four-year undergraduate degree program.

The All Tayyeb Scholarship:
Awarded to a student who demonstrates excellent scholarship in political geography or studies of developing nations.

Blades Prize in Economics:
Awarded on the basis of an essay submitted by a student specializing in Management or Economics on any subject covered by a B-, C- or D-level course in Economics.

Tom McFetris Prize in Anthropology:
Awarded to the outstanding student entering the final year of the Major or the Specialist Program in Anthropology.

John Pounder Prize in Astronomy:
Awarded to a full-time student entering the third year of a physical sciences program on the basis of excellent achievement in ASTASCY and one B- or C-level course in Astronomy.

John S. Moir Prize in Canadian History:
Awarded to the student with the highest standing in HIST 200, Canadian History.

William Banting Memorial Prize in History:
Awarded to the student completing third year, who in the opinion of the members of the teaching staff in History, has excelled in the study of History. Awarded in the memory of William Banting, a History graduate of U of T at Scarborough.

The Morton Kovner History Prize:
Awarded to a student entering the third year of the Major or Specialist Program in History on the basis of academic performance (at least B+ standing) and financial need. Essay is placed on academic performance. Application required. Deadline: September 30

Diefenbaker Essay Prize:
Awarded on the basis of an essay, 250 to 5,000 words in length, on a topic focusing on Canadian politics or a similar field of Canadian Studies. The essay should have a Canadian or primary focus. Essays are normally selected for course work and nominated for the Award. Nominations are usually made by instructors in the Chair of the Division of Social Sciences by April 15, and should include a copy of the essay and a cover page showing full name of the student, student number and the name of the course for which and professor to whom the essay was originally submitted.

McClelland and Stewart Essay Prize in Canadian Studies:
Awarded on the basis of an essay, 2,500 to 5,000 words in length, on a topic focusing on Canadian art, drama, music or literature. Essays are normally submitted for course work and nominated for the Award. However, students may also submit a copy of their essay directly to the Chair of the Division of Humanities by April 30, include a cover page showing full name, student number and the name of the course for which and professor to whom the essay was originally submitted.

The Oxford University Press English Essay Prize:
Awarded for the best essay written for an English course in the second year of the English Language Program. Essays are selected by examiners.

The Margaret H. McCay Johnston Scholarship:
Awarded to a student enrolled in a specialty in political science, who, in the third or fourth year, has the highest grade point average in a course or group of courses (minimum O.P.A. 3.2).

Peter Brome Prize in French:
Awarded for the best undergraduate essay in French drama. Essays are nominated by instructors.

Anita Fitzgerald Prize in Women's Studies:
Awarded for the best essay in the area of Women's Studies. Essays are nominated by instructors.

Dr. Vivien Parkes Memorial Prize in Psychology:
Awarded to a full-time student entering the fourth year of the Specialist Program in Psychology on the basis of excellent academic achievement.

The Katherine Nagel Philosophy Prize:
Awarded to the student in the Major or Specialist Program in Philosophy before the beginning of the third or fourth year of study whose grades and performance in Philosophy, in the opinion of the Faculty in Philosophy, have best demonstrated excellence in the subject.

Morgan Scholarship in English:
Awarded to an outstanding student who has completed the second year of the Major or Specialist Program in English.

Leigha Lee Brooks Scholarship in Drama:
Awarded to a student displaying outstanding ability in the dramatic arts who is either continuing in a Drama Program at UTSC at Scarborough or in graduating and has registered in an advanced acting program in the dramatic arts. Application required. Deadline: June 3

Abram Kravchinsky Prize in Music:
Awarded to the student who has completed the second year of study in the Music Program at UTSC at Scarborough or in graduating and has registered in an advanced acting program in the Music Program.

Abram Kravchinsky In-Course Scholarship in Visual and Performing Arts:
Awarded to a student enrolled in a program in the Visual and Performing Arts who (i) has completed at least 10 full courses and (ii) has shown a high level of achievement in VPA courses.

Juno Barron Scholarship in French:
Awarded to a student who is entering the third or fourth year in a Major or Specialist Program in French on the basis of outstanding achievement in French studies. A minimum of 4.0 full course equivalents must be completed.

Arthur Lowden Scholarship(s):
Awarded to one or more students enrolled in the Early Teacher Project (open to students enrolled in Physical Sciences Scarborough programs) on the basis of academic achievement (minimum 3.5 O.P.A.).

University of Toronto at Scarborough Physics and Astronomy Prize:
This award is currently under review.

Toronto Kettler Lee Club Prize in Physical Sciences:
Awarded to a student enrolled in the Division of Physical Sciences' Early Teacher Project on the basis of excellent academic achievement and contribution to the program through leadership activities and success in the teaching practicum.

Toronto Kettler Lions Club Prize in Environmental Science:
Awarded to a student enrolled in an environmental science program on the basis of excellent academic achievement. Preference is given to a student entering the fourth year of the Environmental Chemistry stream who has shown evidence of a commitment to a career in Environmental Chemistry.

The William D. Peak Award in Biology:
Awarded to a full-time student entering the fourth year of a specialized program in biological sciences on the basis of excellent academic achievement. Essay will be selected on the basis of the student's commitment to the field of study.

University of Toronto at Scarborough Prize in Biology:
Awarded to a full-time student entering the fourth year of a specialized program in biological sciences on the basis of excellent academic achievement. Essay will be selected on the basis of the student's commitment to the field of study.

The Prudential Insurance Company of America, Canadian Operations, Scholarship:
The Prudential Scarborough Spirit Award:
Awarded to a full-time undergraduate student entering the third or fourth year who has demonstrated outstanding leadership qualities in his/her school or community who (i) is a Canadian Citizen or Permanent Resident, (ii) has been a Scarborough resident for at least 5 years, (iii) is a student of a secondary school in Scarborough, (iv) has a good academic record (minimum B average of 3.5 O.P.A.); and (v) demonstrates financial need. (OSOTF) Application required. Deadline: May 31
The Harvey Babik Award in Financial Accounting
Awarded to a student completing the third year of the Specialist Program in Management with the highest average (at least A minus) of grades achieved in MGCM07H and MGCM08H. Donated by KPMG.

Ho Chak Wan Memorial Scholarship in Management
Awarded to a student entering second, third or fourth year in a management program. Financial need must be considered in addition to academic merit. (OSOTT*) Application Required. Deadline May 31

The Prudential Management and Economics Award
Awarded to full-time undergraduate students entering second, third or fourth year who have demonstrated outstanding leadership qualities in their school or community, (i) is a Canadian Citizen or Permanent Resident, (ii) has a good academic record (minimum B average in G.P.A. and (iii) demonstrates financial need. Preference is normally given to full-time students. However, students who are not enrolled in a full-time course load may also apply. (OSOTT*) Application Required. Deadline May 31

City of Scarborough Scholarships
See Financial Need section below.

Brian David Raffle Memorial Scholarship in Management
Awarded to one or more students entering the third or fourth year of a Management program whose academic and athletic achievement, combined, best exhibit dedication to excellence. (Minimum grade point average of 3.5+B) Application Required. Deadline September 30

Management Accounting Student of Merit Scholarship
Awarded to the student who has completed the third year of study in the Specialist Program in Management and who has completed the following courses with the highest average grade: MGCM30H, MGCM31H, MGCM32H, MGCM33H, MGCM37H. Donated by The Society of Management Accountants of Ontario.

Keith and Amelie Ellis Award in Management and Economics
Awarded to a student entering third year in a degree program in the Division of Management on the basis of financial need. Preference will be given to a candidate who has shown a marked improvement in academic standing from year one to year two. (OSOTT*)

Galantov Y. T. Ho Scholarship in International Development Studies
Awarded to a student entering second, third or fourth year in the Co-operative Program in International Development Studies. Financial need must be considered in addition to academic merit. (OSOTT*)

Canadian Society for Chemistry Silver Medal
Awarded to a student entering the fourth year of a specialist program in Chemistry who has the highest standing in the program in third year. (OSOTT*)

Canadian Society for Chemistry, Toronto Section Book Prize
Awarded to the most improved student entering the fourth year of a specialist program in Chemistry. (OSOTT*)

Division of Physical Sciences Book Award in Chemistry
Awarded to a student entering the third year of a program in chemistry based on academic achievement in the courses required for the program (a minimum of three Chemistry courses must be completed to be considered). (OSOTT*)

Rohan & Haas Canada Scholarship
Awarded to one or more students entering either (i) the third year of a major program in chemistry or (ii) the third or fourth year of a specialist program in chemistry. Financial need must be considered. Academic merit will also be considered. (OSOTT*)

University of Toronto at Scarborough OSOTT Scholarships
Awarded to students enrolled in undergraduate degree programs on the basis of financial need. Academic merit will also be considered. (OSOTT*)

Frank M. Waddell Scholarship
Awarded to a student from Brant County, Ontario on the basis of academic excellence. Application required. Check Award Binder in Room 501 for deadlines.

Andrew Tang Memorial Scholarship in Sinic-Canadian Studies
Awarded to the undergraduate whose academic performance and extra-curricular activities in the area of Chinese studies and Sinic-Canadian studies best exhibit a commitment to Chinese-Canadian cultural and economic ties.

Samuel Beatty In-Course Scholarships
Awarded to students enrolled in second, third or fourth year, in a Specialist Program offered by the departments of Mathematics, Physics or Computer Science (Faculty of Arts and Science, UofT's St. George) on the basis of academic performance and financial need. Application required.

APUS Scholaristic Awards
Part-time undergraduate students who (a) have completed at least ten full courses, of which four are in an area of specialization, and (b) have obtained a B average (G.P.A. of 3.0) in the most recent five full courses, may be considered. Application required.

APUS Award for the University of Toronto's Seagullcentennial
Part-time undergraduate students who (a) have completed at least five full courses with a B average (G.P.A. of 3.0) in the last five full courses, and (b) have demonstrated outstanding achievement or commitment in activities distinct from their University studies or have overcome adverse circumstances in order to attend University, may be considered. Application required.

Jovita Hegy Scholaristic Awards
Part-time students who have a G.P.A. of at least 3.3 in the most recent five courses who have completed the majority of their courses on part-time basis may be considered. Sponsored by APUS. Application required.

Need-Based Scholarships; Bursaries; Financial Assistance
NOTE: Some scholarships listed above may also be a financial need component.

University of Toronto Undergraduate Bursaries or Grants
Applicants must demonstrate financial need. Applications may be obtained from the Office of the Dean of Student Life, 120 Baseline Rd., Room 3204, Toronto, Ontario (10/93). Deadline: November 1; however, applications will be accepted after this date should emergencies arise and funds still be available.

University of Toronto Advance Planning for Students (UTAPS)
Students who are concerned about financing their university studies can obtain early information about various other financial assistance by completing a UTAPS application. These applications are mailed in the spring to all Canadian citizens and permanent residents who have applied for
OSAP application forms are also available for pick-up in the Office of the Registrar, Room S609. It is recommended that returning students apply for OSAP assistance for the Winter Session by May 31 and new students by June 30. Check with staff regarding summer deadlines.

Student from other Canadian provinces should apply through their provincial financial aid program. Admissions and Awards can provide addresses, and, in many cases, application forms.

University of Toronto Work-Study Program
This program is funded by the University and the Ministry of Education and Training, and provides on-campus, part-time employment to students with financial need. Information and applications are available from Admissions and Awards or from the Resource Centre at Scarborough, Room S302.

Bursary for Students with Disabilities
Non-refundable assistance of up to $5000 is available from the federal and provincial governments for OSAP recipients who have special educational expenses as a result of a disability. Information and applications are available from Admission and Awards.

Ontario Student Opportunity Trust Fund Awards (OSOTF)
To qualify for consideration for awards listed above which are described as OSOTF awards, students must qualify for consideration for the Ontario Student Assistance Program (OSAP).

Graduation prizes
Graduation Prizes in Humanities, Life Sciences, Management & Economics, Physical Sciences and Social Sciences Awarded to the outstanding graduate student in each of these areas of scholarship.

All Tayyefi Prize in Geography Awarded to the outstanding student graduating in Geography in a Major or Specialist program.

The Irwin Publishing Prize in Classical Studies Awarded to the outstanding member of the graduating class who has completed a Major or Minor Program in Classical Studies.

Firth Prize in Psychology Awarded to the outstanding member of the graduating class who has completed a Major or Specialist Program in Psychology.

CSA Ontario Award for Excellence Awarded to an outstanding graduating student completing a Management program who has displayed excellent achievement in accounting or at least B plus in MGT421H, MGT422H, MGT421H and MGT422H. Preference will be given to students who intend to work in the CSA program. A declaration is required. Write to the Assistant Registrar, Downs by May 15.

Robert James Prize in Sociology Awarded to the outstanding student graduating in Sociology in a Major or Specialist program.

The Society of Chemical Industry Student of Merit Award Awarded to the member of the graduating class who has completed a Chemical program in chemistry and achieved the highest standing in the final year. (Minimum GPA of 3.077%) has completed the degree within the normal number of years)

Orpheus Prize in Humanities Awarded to an outstanding member of the graduating class who has completed either the College Program in Humanities, the Major Program in Music History and Literature, or the Specialist Program in the Arts.

Graduation Prize in Political Science Awarded to an outstanding member of the graduating class who has completed a program in political science.

Graduation Prize in Linguistics Awarded to the outstanding student graduating in Linguistics in the Major Program.

Digital Empowerment of Canada Limited Award of Merit Awarded to the most outstanding student graduating in Computer Science in the University.

John H. Moss Scholarship Exceptional all-round students graduating in the arts who intend to enter a graduate or second undergraduate degree program should submit an application for this prestigious scholarship from the University of Toronto Alumni Association in the fall. The deadline is normally in early December.
Academic Regulations

Student responsibility
Students are responsible for making themselves familiar with the information in this Calendar, particularly with this section, as well as all instructions published periodically by the Registrar's Office. Students whose registration contains the regulations may be withdrawn from courses, regardless of when the registration occurs. Joint Members of the Registrar's Office and the Counselling Services Office will assist students in interpreting the regulations and explaining their application in particular cases. Where appropriate, they will help those who encounter special difficulties to request special consideration.

Calendar changes
The information published in this calendar outlines the rules, regulations, curricula and Programs for the 2001 Summer Session (May to August) and the 2001 Fall/Winter Session (September to May). The University of Toronto at Scarborough reserves the right to change without notice any information contained in this Calendar, including any rules or regulations. The publication of information in this Calendar does not bind the University to the provision of courses, Programs or facilities as listed herein.

Enrollment limits
The University of Toronto at Scarborough reserves the right to limit the number of registrants in any Program or course where the number of qualified students exceeds the teaching or other resources available. As far as possible, places will be available for incoming students in A-level courses.

Photo identification cards - T-cards
All students are required to have a photo identification card (Tcard). The identification card serves as both a proof of enrollment and a library card. Students who do not have a photo identification card (Tcard) should obtain one from the Registrar's Office. Cards are provided free of charge to all new students. A fee is charged to replace cards.

Student in debt to the University
University of Toronto at Scarborough imposes the following academic sanctions on students in debt to the University:
- transcripts are not issued
- registration of continuing students is cancelled
- registration is refused to re-enrolling students (i.e. returning to the College after an absence of twelve months or more)

The following debts are taken into consideration when applying sanctions:
- tuition fees
- residence fees and other residence charges
- library fines
- loans made by colleges, faculties or the University
- health service accounts
- unreturned or damaged instruments, materials and equipment
- fines levied under the Code of Behaviour on non-academic matters

Student Record System (ROSI)
University of Toronto student records are maintained by a student-friendly system called ROSI. ROSI is accessible on-line at www.rosi.utoronto.ca and by touch-tone telephone at 416-873-ROSI.

Course key
1 The Course Code
   a The Subject Code
      The first three characters of the course code indicate, in an abbreviated form, the discipline or subject area of the course. ANTH417Y3 "ANT" indicates a course in Anthropology, CBHU443Y4 "CHM" indicates a course in Chemistry.
   b The Subject Code may also be supplemented with a "M" that indicates a course in Music, a "B" that indicates a course in Business, or a "Y" that indicates a course in the Faculty of Dentistry.
   c The Course Number
      The 4th and 5th characters of the course code are the course numbers. In most disciplines, these numbers have no significance, except to identify the course in a shorthand form.

4 Credit Value of a Course
   The seventh character of the course code indicates the credit value of a course as follows:
   Final Credit Value
   0 Full Course
   5 Half Course

5 Campus
   The 'Y' at the end of the code indicates a course on the Scarborough Campus of the University of Toronto.

6 Section Code
   Section codes indicate the duration of the course as follows:
   Summer Session Fall/Winter Sessions
   Y May-August September-May
   M May-June September-December
   S May-August January-May

Exclusions, Prerequisites and Corequisites
1 Exclusions
   A student may not register for credit in a course which lists, as an exclusion, one which the student is also taking or has already passed. Courses are not always manually exclusive, so it is important to check the matrix for both courses when one lists the other as an exclusion.

2 Prerequisites
   A student must have passed the prerequisite course before enrolling in the course being described. Instructors are permitted to waive prerequisites if they feel that there are adequate grounds for so doing. If a student registers in a course without meeting its prerequisite and without obtaining a specific waiver, the student may be withdrawn from the course at any time. Students who are not withdrawn from the course remain in it at their own risk, for lack of the prerequisite is not grounds for special consideration. Instructors also complete courses for which they have obtained a waiver of specific prerequisites may not subsequently obtain credit for the prerequisites.

3 Corequisites
   Students must either already have passed the corequisite course, or must enroll in it at the same time as they take the course being described. Instructors are permitted...
to waive prerequisites if they feel that there are adequate grounds for so doing. If students register for a course without meeting its prerequisite, or if they withdraw from the co-required course without obtaining a specific waiver of the prerequisite, they may be withdraw from the course at any time. Students who are not withdrawn from the course remain in it at their own risk, for lack of the prerequisite is not grounds for special consideration.

4. Prerequisites in Square Brackets

Square Brackets are used to indicate prerequisites for each course. The course description must be met, unless waived by the instructor.

5. Exclusions, Prerequisites and Co-requisites in Parentheses

Some exclusions and some prerequisites and co-requisites are enclosed in parentheses, for example, (L1771). This indicates that the course is no longer in the College’s curriculum. Students who have already passed an excluded course contained in parentheses may not take the course being described. Students who have completed a previous session, a prerequisite or co-requisite course contained in parentheses may make use of the course to meet the requirements of the course being described.

NOTE: Although it may not be in this Calendar, some St. George or Erina courses may be excluded or USC courses and vice versa. If UTSC, Erina and St. George courses have similar titles of course, contact the Divisional Office offering the course(s) to determine if the course(s) content is so similar that the courses should be considered as exclusions.

Supervised Reading, Supervised Research and Independent Study Courses

Students in these courses work under the direction of a faculty member with whom they meet periodically or in the laboratory they work. Students must obtain written permission of instructors before enrolling in them. (Forms are available from the Registrar’s Office.) Please note that some disciplines require submission of their own special application forms for courses of this type in addition to the Supervised Study form.

9. Students who are restricted to part-time studies may have a course load of no more than 3.0 in the Fall Session, 3.0 in the Winter Session or 1.0 in any one term of the Summer Session until they have completed at least 2.5 fall and winter courses and have a cumulative grade point average of at least 2.0. In applying this rule, course load is calculated as follows:

<table>
<thead>
<tr>
<th>Credit</th>
<th>Section</th>
<th>Summer</th>
<th>Fall</th>
<th>Winter</th>
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10. Students must register for their courses in accordance with instructions issued each session by the Registrar’s Office. Students who wish to change their registration:

- may do so only until the deadlines for adding and withdrawing from courses, stated in the "Academic Calendar" of this Calendar;
- must notify the Registrar's Office of any change through ROSI.

11. Where multi-sectioned courses have a common examination, students enrolled in the evening session of the course may be required to sit an examination during the day.

Notes:

- A course: The course number is used in two ways:
  - 1. To describe a full or half course such as "the last day to withdraw from a course";
  - 2. To describe a number of full courses, or the equivalent in full and half courses such as the requirement of passing fifteen courses for a three-year degree.

- To pass a Course: To pass a course means to obtain a grade of D- or better in that course (or "Credit" in a Credit/No Credit course).

- A Specific Prerequisite: This rule does not apply in the case of non-specific prerequisites (such as "one B-level course in English") or in the case where one of two or more completely different courses may serve as prerequisite.
Changing Meeting sections in a course
Students may change meeting sections in a course at any time provided that, if the change takes place after the deadline for adding the course, they have appropriate approval. Approval normally comes from the instructor of the new meeting section or from the course coordinator. Changes must be recorded at the Registrar’s Office through ROSI (until the last day to add the course).

Dropping a course
If students withdraw from a course by the appropriate deadline, no record of registration is shown on the student’s transcript.
If students cease to complete course requirements but do not withdraw officially by the deadline, a grade based on the marks awarded (including a zero for any incomplete work) will be recorded.

Withdrawal from the session
Students withdrawing from a session may wish to speak to an academic advisor about the academic and financial consequences of withdrawal.

Standing in a course
Grades of "F" and "NC" are failing grades, yielding no standing in a course and no degree credit. Students are cautioned that a numerical score on an assignment is not desired to be automatically equivalent to the corresponding letter grade.
Credit/no credit courses
In some courses, such as certain visual and performing arts courses, specific letter grades may not be assigned. Students may instead be graded on a Credit/No credit (CR/NC) system. The grade of "No credit" is a failing grade.

Asgard standing
On petition, a grade of "Asgard" (AG) may be assigned. This grade is assigned on the basis of work completed where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and whereas a student has already completed at least 60% of the work of the course with a grade of "C" minus or better. Where a student is assigned Asgard standing, the course is not included in any grade point average. Students who require a letter grade will be expected to complete the work of the course.

Extra (EX) courses
Extra courses are those courses in which students may not register for credit (see "Course Selections" on page 220). The course and its grade will appear on the student’s transcript (designated as an extra course), but the grade will not be included in any grade point average.

Other notations
The following notations do not affect grade point value and do not yield credits.
W = Withdrawal without academic penalty after the relevant deadline (see "Special Consideration, Petitions, and Waivers" on page 229).
WCR = Grade withheld pending review
MCR = No grade available
SEF = Standing deferred on the basis of incomplete course work because of medical or similar means.
IPR = In progress

Grades of "F" and "NC" are failing grades, yielding no standing in a course and no degree credit. Students are cautioned that a numerical score on an assignment is not desired to be automatically equivalent to the corresponding letter grade.
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Overall standing

Grade point averages (G.P.A.'s)

1. A grade point average is calculated as follows: the grade points earned in each fall course and one-half the grade points earned in each half course are added together and this total is divided by the number of full courses (or equivalent) taken.

2. A semester grade point average is calculated on the basis of all courses taken in a given session (Fall, Winter or Summer) having a grade point value.

3. An annual grade point average is calculated on the basis of all courses taken in the Fall/Winter sessions (September - May) having a grade point value.

4. A cumulative grade point average is calculated on the basis of all courses taken having a grade point value.

The following grade point averages will be calculated for all students at the end of each session and shown on the student’s transcript:

- Sessional: Sessional and cumulative G.P.A.
- Sessional: Sessional and cumulative G.P.A.
- Sessional: Sessional and cumulative G.P.A.

Determination of academic status

Academic status will be determined as follows for students who have attempted at least two and one-half fall courses (or equivalent) since beginning their studies at the University of Toronto at Scarborough or at the University of Toronto’s Faculty of Arts and Science. It is determined at the end of each semester.

1. In good standing

   Students who maintain a cumulative grade point average of 1.60 or better are said to be in “good standing.”

2. On probation

   - Students who have attempted at least two and one-half courses in the College and
   - Students who have attended a cumulative G.P.A. of less than 1.60 are placed on probation.

   - Students returning from suspension (see 5 below) and any provision in previous College rules) shall be placed on probation again.

3. Probation cleared

   Students may close probation by achieving a cumulative G.P.A. of 1.60 or better. Students who have closed probation shall be said to be again “in good standing.”

4. Probation continued

   Students may continue on probation by achieving an annual grade point average of at least 1.50 in each Fall/Winter Session and a sessional grade point average of at least 1.60 in each Summer Session until such time as they return to good standing.

5. Suspended or refused further registration

   Students who, by the end of a given session, whether Summer (May to August) or Fall/Winter (September to May), have not either closed probation or achieved a Fall/Winter annual grade point average or a Summer sessional grade point average of at least 1.60 shall be liable for suspension or refusal of further registration as follows, regardless of the number of courses taken in the session:
   - Students who have incurred no previous suspension will be suspended for one year.
   - Students who have previously incurred (at least) one-year suspension will be suspended for two years.
   - Students who have previously incurred a three-year suspension will be refused further registration in the College.

Determination of academic status for students admitted on condition

In certain circumstances, students who do not meet normal admission requirements may be admitted “on condition.” The academic status of such students is determined according to the following rules:

1. The status of students admitted on condition will be reviewed at the end of the session in which such students are enrolled; with the exception of second full-course equivalent.

2. Where such students earn a cumulative grade point average of 1.70 or better, their conditional status will be removed, and they will be said to be “in good standing.”

3. Where such students have a cumulative grade point average of less than 1.70, they will be suspended for one year. Upon their return from suspension, their academic status will be assessed and it will be assessed for any other student returning from suspension.

Courses on other campuses

Students are permitted to take some courses at other institutions, provided that the courses are acceptable in the University of Toronto program to which the student is registered. Students may be withdrawn from courses after classes have started if their registration violates these rules.

Overall limits

At all times throughout their University career, students are required to maintain a cumulative G.P.A. of 1.60 or better. Students who have closed probation shall be said to be again “in good standing.”

Courses on Other Campuses/Study at Other Universities

Courses on other campuses or at other institutions require permission from the University of Toronto. Students are not permitted to register for courses at other institutions without prior permission from the Office of the Dean of Admissions and Awards at 315 Bloom Street West to establish how they will be affected by transferring from one faculty of Arts and Sciences to another.

Transfer to the Faculty of Arts and Science

Students who are contemplating transfers to the other Colleges in the University should be aware that the University of Toronto at Scarborough is in fact a separate faculty and rules governing students at University of Toronto at Scarborough differ from those in the Faculty of Arts and Science. Students are urged to contact the Office of Admissions and Awards at 315 Bloom Street West to establish how they will be affected by transferring from one faculty of Arts and Science to another.

Study at other universities

Students who wish to take courses at another university and have credits transferred to the University of Toronto must request permission from the Office of the Dean of Admissions and Awards at 315 Bloom Street West to establish how they will be affected by transferring from one faculty of Arts and Sciences to another.

Overall limits

At all times throughout their University career, students who are registered at any University of Toronto can be withdrawn from courses after classes have started if their registration violates these rules.

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At all times throughout their University career, students who are registered at any University of Toronto can be withdrawn from courses after classes have started if their registration violates these rules.

Determination of academic status for re-enrolling students at University of Toronto at Scarborough

Students who have studied at other institutions since their last registration at U of T must arrange for official transcripts of all post-secondary studies to be sent to the University of Toronto at Scarborough upon application for re-enrollment. Performance in courses taken elsewhere (including other divisions of the University of Toronto) will be taken into consideration in determining whether to approve the application and whether to make any change in the student's academic status. Students who study at other universities without prior permission from the University of Toronto at Scarborough are unlikely to be eligible for transfer credit for such study. See also the section “Study at other universities”.

Grade reports

Final grades and academic standing are made available through RIO. Grades are available as soon as they have been submitted and approved. Academic standing is available in early September for Summer Sessions and the second half of May for Winter Sessions.

Grade reports are mailed only to students who are on academic probation, suspended or refused further registration.

Study at other institutions or other divisions of the University of Toronto

Courses taken for credit by degree students while registered at the University of Toronto’s Faculty of Arts and Science are included in the University of Toronto at Scarborough grade point averages, as are all University of Toronto courses taken for credit while registered at University of Toronto at Scarborough. Courses taken while registered at other institutions or other divisions of the University of Toronto are not included in grade point averages.

Courses on other campuses

Students are permitted to take some courses at other institutions, provided that the courses are acceptable in the University of Toronto program to which the student is registered. Students may be withdrawn from courses after classes have started if their registration violates these rules.

Overall limits

At all times throughout their University career, students are required to maintain a cumulative G.P.A. of 1.60 or better. Students who have closed probation shall be said to be again “in good standing.”

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Students who wish to take courses at another University and have credits transferred to the University of Toronto must request permission from the Office of the Dean of Admissions and Awards at 315 Bloom Street West to establish how they will be affected by transferring from one faculty of Arts and Sciences to another.

Overall limits

At all times throughout their University career, students who are registered at any University of Toronto can be withdrawn from courses after classes have started if their registration violates these rules.
Supervision in French for advice about choosing three universities offering courses which most closely correspond to the curriculum at the University of Tokyo. Submit the form to the Registrar's Office (Room S300) to verify registration and mail promptly to enhance your chances of obtaining your first choice of university. Once you know the university to which you have been accepted and at least three weeks before your departure, apply for a Letter of Permission. You will be advised of the level to which you must register in order to be eligible for the credit to be transferred.

(5) Study Elsewhere year
To apply for a Study Elsewhere Program, students may obtain an application from the Assistant Registrar. Admissions or the Associate Dean. The application requires details about the proposed courses of study and asks students to show how the intended studies will enhance their studies at the University of Toronto at Scarborough. Students who intend to count the courses towards Program requirements must obtain the approval of the Program Supervisor before submitting the application. Students normally apply for a Study Elsewhere year during the third year of a four-year program. However, students may apply after completing four full-course equivalents at University of Toronto at Scarborough. To be eligible, a student must have a cumulative grade point average of 2.5 or better. The approved courses must normally return to University of Toronto at Scarborough to complete the final year of study. A maximum of 5.0 full-course equivalents will be considered for transfer.

Completed applications should be submitted to the Assistant Registrar, Admissions by March 1. The proposed Program will be reviewed by the Study Elsewhere Committee.

Since there is often limited information about foreign universities, students should begin the process early in October. Most often students register at the host university and follow its courses for credit. If it is possible that students may arrange to take University of Toronto independent study or supervised reading courses under supervision from University of Toronto faculty.

(6) International Student Exchanges
The University of Toronto operates several institution-wide student exchange programs. A student must receive approval from UofT at Scarborough and the International Student Exchange Office to undertake an exchange program. Undergraduate Programs include:

- Chinese University of Hong Kong
- University of Hong Kong
- National University of Singapore
- Kyushu University (Japan)
- Humboldt University, Germany
- The Canadian-Taiwan Student Exchange Program An exchange program that includes 30 institutions in Taiwan
- Ontario-Radies Wettbewerb Exchange Program (Germany) A regional exchange program that includes 9 German universities
- University of Bonna (Germany)
- University of the West Indies (Barbados, Jamaica & Trinidad)
- University of Melbourne (Australia)
- University of New South Wales (Australia)
- University of Auckland (New Zealand)
- Lancaster University (United Kingdom)
- Canadian University Study Abroad Program, Hortsmann (East Sussex, England)
- Nanyang Technological University (Singapore)
- University of Queensland (Australia)
- University of Amsterdam (The Netherlands)
- University of Birmingham
- University of Nottingham
- University of Glasgow
- University of Cambridge
- Technion - Israel Institute of Technology
- University of Western Ontario
- Fudan University (China)
- Peking University (China)
- University of Auckland (New Zealand)
- Lund University (Sweden)

Canadian Student Exchanges (CANEX - Canadian Exchange Program)
- McGill University
- McMaster University
- Queen's University
- University of New Brunswick
- University of Alberta
- University of British Columbia
- University of Waterloo
- University of Western Ontario

For further information, applications, and a list of current exchange programs, please contact:

International Student Exchange Office of the Vice-President and Provost Room 303 Koffler Student Services Centre 214 College St., Toronto, ON M5T 2S9 Telephone: 416-978-3338 Fax: 416-978-8110 http://www.utoronto.ca/student/exchange E-mail: student.exchanges@utoronto.ca

Admissions and Student Recruitment, Room S300

Grades and Accountability
Students registering in courses offered by the University of Toronto receive grades in the normal manner. To receive credit for other courses, the student must earn one full grade higher than the minimum passing grade (i.e., a C average or better) using a grading scale similar to that of the University of Toronto). Grades are not recorded on transcripts and are not included in any grade point averages. The student must arrange for the host university to send an official transcript to University of Toronto Scarborough after completion of the course.

Students who do not register or who withdraw without academic penalty must arrange for a letter from the Registrar of the host university confirming these details. Failure to meet this or the minimum grade requirement will result in the notation of "no credit" being entered on the student's transcript at University of Toronto.

Fees and Aid
Students pay the appropriate fees to the host university and a Study Elsewhere fee. The Study Elsewhere fee will be charged by the University of Toronto at Scarborough. Students who would be eligible for financial assistance through the Ontario Student Assistance Program for study at University of Toronto at Scarborough may be eligible for similar assistance in their Study Elsewhere year. (Consult the Student Awards division of Admissions and Awards at 416-978-2190.)
Academic transcripts

The academic transcript is the official statement of the academic record of each student.

Contents

1. Policy on access to student records

1.1 Procedure

1.1.1 Academic records of students are entered in the student records of the University and are the property of the University and is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria, and procedures which apply to the academic records of students of academic divisions of the University.

1.1.2 The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:

1.1.2.1 Students, alumni and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible.

1.1.2.2 A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.

1.1.2.3 There will be a basic university-wide consistency in the kinds of information collected, recorded, filed and made available.

1.1.2.4 In keeping up with the planaristic nature of the University academic divisions may mean some flexibility in the implementation and application of the policies established within this document.

1.1.2.5 Individual divisional regulations and procedures on access to student academic records, including the statement in the
divisional calendar concerning such, shall be reported by the Provost to the Committee on Academic Policy and Programs. Any subsequent revisions shall also be reported.

1.1.2.6 This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.

1.2 For the purposes of this policy:

1.2.1 "student" means any person registered at the University for full-time or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other University body having delegated authority. On the date of an enquiry or request relevant to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".

1.2.2 "alumni" or "alumni" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time study or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.

1.2.3 "former student" means any person who is not a student or an alumnus or alumnus who has been registered at the University in a program as defined in Section 1 (2), and is no longer registered at the University.

1.2.4 "academic division" means a college, school, faculty or other division of the University that has academic autonomy (i.e. the right to administer its own degrees.

1.2.5 "Permission, certificates and other programs of study" subject only to the authority of the Vice-President and Provost and the Governing Council.

3. Definition of the official student academic record

The official student academic record refers to information relating to a student's admission to and academic performance at the University. The "official student academic record" shall contain:

1.3 Access to the student academic record

1.3.1 Access by a student

1.3.1.1 A student may examine and have copies made of his or her official student academic record defined in Section 2 above, with the exception of those portions of the record which comprise letters of reference (Section 3.b.1) which have been provided or
(e) Access by students and former students

(i) An alumna or alumnus of a former student may examine and have copies made of the portions of his or her official student academic record as defined in Section 3(a) above.

(ii) Any other information contained in the official student academic record (including any comments generated under Section 3(b)(ii) but not the exception of the material specifically excluded in Section 4(5)(d)) shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies, in the Ministry of Colleges and Universities for an annual enrollment audit, or otherwise under compulsion of law. Requests made to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumna and former students contained in the portions of the academic record as defined in Section 3(b)(ii) shall also be governed by theabove provisions.

(iii) General statistical material drawn from academic records not disclosing the identities of students, alumna and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records.

(iv) In the event that a student, alumna or alumnus or a former student is deceased, the executors of his or her estate shall have access to the official student academic record under the same transactions as would the legal heir if he or she were still living.

(f) Access by students and former students

(i) The University reserves the right to withhold access to the statements of results and transcripts of students, alumna and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Records for Students Who Have Outstanding University Obligations. The University may also choose not to release the official diploma to such persons nor to provide written or oral certifications of degree or their degree.
University grading practices policy

The following is the text of the University grading practices policy. Square brackets [ ] indicate additions to the policy to clarify or interpret as it applies specifically to the University of Toronto at Scborother.

Purpose

The purpose of the University Grading Practices Policy is to ensure:

a) that grading practices throughout the University reflect appropriate academic standards;

b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;

c) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of Policy

The Policy applies to all individuals and committees making past in the evaluation of student performance in degree, diploma, and certificate credit courses (hereinafter referred to as courses).

Amendment to Policy

Amendments to the Policy shall be recommended to the Academic Board.

Distribution of Policy

A copy of the Grading Practices Policy as well as the description of the grade scales and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to by divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Vice-President and Provost.

PART I Grades

Meaning of Grades

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

A grade assigned in one course is not an assurance of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.

Grades Scales

A) Once a judgment on the performance of the student has been made, the following grade scales are to be used:

(1) the refined letter grade scale: A+, A-, A, B+, B, B-, C+, C, C-, D+, D, D-;

(2) the numerical scale of marks consisting of all integers from 0 to 100;

(3) for graduate divisions only, a truncated refined letter grade scale in which FZ replaces the C, D and F grades in (a) above, and

(d) the scales Honours/Pass/Fail and Credit/No Credit.

Grades vs. Scores

Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade.

Gradations are fixed only after review by the divisional review committee described below.

Grade Reporting

Grades will be assigned according to the numerical scale of marks referred to in (d) above, and converted to the refined letter grade scale of (a) above. In graduate divisions, grades may be assigned according to the truncated refined letter grade scale if L.1 (c) above. The H/W/F, and CR/NCR scales of (d) above may also be used. However, the grades assigned in a course must fall all from the same scale.

All non-grade designations used in reporting courses may correspond to the University-wide standard. A list of the currently approved designations and their meanings is given in the Appendix A.2.
IL. Divisional Review Committee

1. At each division, a committee chaired by the divisional head or a designate, and when appropriate, an additional committee structure, with the chairs (or their designees) of departments or other academic units of divisions serving as chairs, shall:
   (a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
   (b) approve and administer the University’s specific regulations concerning the grade scale or scales to be used, the assignment of non-grade designations for course work, classroom procedures and approved methods of evaluation;
   (c) review, adjust and approve course grade recommendations by instructors. The grades recommended for any individual student in the professional faculties may be adjusted according to his or her performance in the course or program as determined by the committee. The divisional committee has the final responsibility for assigning the official course grade.

II. Classroom Procedures

1. To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices here:
   (a) As early as possible in each course (and no later than the division’s last day for course enrollment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be exams, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.
   (b) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.
   (c) Student performance in a course shall be assessed no more than once per term. No five-year, five-examination, etc., should have a value of more than 60% of the grade. Criteria for exemption may be determined by the division.
   (d) In courses that meet regularly as a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division. The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.
   (e) Commentary on assessed term work and time for discussion of it shall be made available to students.
   (f) At least one piece of assessed work which is part of the evaluation of a student’s performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last day for withdrawal from the course without academic penalty.
   (g) Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student’s overall performance.

In formulating their own regulations, divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such terms as “a simple majority” (b), “one-third of the final grade” (d), or in particularizing the evaluation methods referred to in (a) and (b).

III. Procedures in the Event of Disruptions

Principles
The following principles shall apply in response to any disruptions of the academic program:
1. The academic integrity of academic programs must be maintained;
2. Students must be informed in a timely manner recognizing their freedom of choice to attend class or not participate in class.

Procedures
(a) The Vice-President and Provost or the Academic Board shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes that may be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
(b) Individual instructors or multi-section co-ordinators responsible for courses that are disrupted shall determine, as a disruption occurs, whether any changes to classroom procedures are needed to complete the course.
(c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a week of the students experience proposed changes is to be taken. Changes agreed upon by instructors should be forwarded to the department or division with an report on the attendance at the class when the vote was taken.
(d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after class discussion, will provide the division head or chair of the department in multi-departmental faculty with a recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.
(e) When classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the divisional head and requires the approval of the Provost. Where courses are to be canceled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.
(f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing on the campus press.
Should classes resume students must be informed, of class, of any changes made during the disruption.
(g) Where a declared disruption occurs in a specific course after the last day to drop classes for the academic term or session, students who do not wish to complete the course(s) during that term or session, may, prior to that day of classes, withdraw without academic penalty. Such students shall receive a full refund of the course tuition fee.
(h) Where students have not attended classes that are required to maintain, the students remain responsible for the work, including all required assignments and course requirements. However, when possible, reasonable extensions of deadlines for the course requirements, or provisions of make-up tests shall be made and reasonable alternative access to material covered should be provided.
II.4 Assessment in Clinical and Field Settings

Divisions may make reasonable exceptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where student performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass at a minimum:

(a) A formal statement describing the evaluation process, including the criteria to be used assessing the performance of students and the assessment methods available. This statement should be available to all students before or at the beginning of the clinical or field experience;

(b) A mid-year performance evaluation with feedback to the student;

(c) Written documentation of the final assessment. In addition, for such clinical and field experiences, divisions must ensure that:

(d) The final evaluation is communicated to the student.

(e) Written documentation of the final assessment is available to all students before or at the beginning of the clinical or field experience;

(f) Written documentation of the final assessment is available to all students before or at the beginning of the clinical or field experience;

II.5 Grade Review and Approval Process

The following principles and procedures shall govern the grade review and approval process.

(a) The distribution of grades in any course will not be predetermined by a review of quotas that specifies the number or percentage of grades allowable at any grade level.

(b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is normal. The division may require an explanation of any grade for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits.

(c) The criterion that the Divisional Review Committee shall employ in its evaluation is whether the instructor has followed the University Grading Practices Policy. The Review Committee shall not normally adjust grades unless by the consensus of allowing the grades to stand would be injurious to the standards of the University, or the class in general.

(d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).

(e) Where grades have been adjusted by a divisional committee, the students, as well as the instructor shall be informed. In this regard, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal process.

(f) Where a departmental review committee changes course grades, the faculty member shall be so informed. Having done so, the faculty member shall relay this information, upon request, to the student or the instructor with a description as to the reasons for the change and the methodology used.

(g) For statistical data, including drop-out rates, mean arithmetic average, etc., should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grade distribution is anomalous. Rather, the information shall provide part of the basis for an overall review of grades in a division.

(h) When class grades have been changed, or when the Divisional Review Committee has reservations about the grades, the instructor will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading Practices Policy is followed in future.

II.6 Appeals Procedure

Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established by the division. The appeal may be made whether grades have been changed by the division or department. These procedures shall be outlined in the divisional Calendar, and available upon request at the faculty or registrar's office.

II.7 Student Access to Examination Papers

(a) All divisions shall provide access to copies of the previous year's final examination papers and other papers where feasible. Examinations may be masked by an appropriate entry of the name of the division or department.

(b) All divisions shall provide access to students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee shall be set to cover administrative costs including photocopying.

II.8 Conflict of Interest

Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

Examinations

Examinations are held at the end of both terms of each Summer Session and at the end of each Fall Session and each Winter Session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of personal commitments.

Information regarding dates and times of examinations will not be given by telephone. Students are responsible for reading the timetable carefully and appearing at the time specified. Students taking courses during the day may be required to write evening examinations and students taking evening courses may be required to write day examinations. Students may also be required to write Saturday term tests or examinations.

Examination timetables

Students scheduled to write examination papers at the same time should report their conflicts to the Assistant Registrar (Secretarial and Scheduling) (1-664-401, 416-387-7540). Arrangements will normally be made for examinations held at the same time, with a supervised break. Where the conflict involves a 3-hour examination, arrangements will normally be made for both examinations to be written at University of Toronto at Scarborough. Requests for such arrangements must be made no later than two full weeks before the commencement of examinations and will not be considered after that time.
Special consideration, petitions and appeals

From time to time students may need to ask for special consideration in their academic work or for exceptions to be made in the academic regulations. Such requests normally arise as a result of their being affected by something outside their control, such as illness, accident or the death of a family member. Very occasionally students may find themselves in a situation not foreseen by the College regulations or feel that they have been unreasonably affected by a deviation from University Policy or approved practice. If you find yourself in such a situation, it is important that you follow the appropriate procedures and meet any published deadlines.

Policies and deadlines for courses taken on other campuses may differ from those outlined below. See the Calendar of the Faculty of Arts & Science for regulations regarding its courses on the St. George Campus. You are responsible for observing the regulations governing any courses you take on other campuses.

You should seek special consideration only when there are circumstances which are not only beyond your control but which you could not reasonably have anticipated or overcome and which have seriously affected your studies.

A. Term work

1. If:
   a. you are unable to write a term test, or
   b. your performance on a test is adversely affected by illness or other extraneous circumstances,

   you may request that your instructor or the Divisional Chair may give you an extension for up to a week after the last date to submit term work.

2. If it is close to the end of term or session and you need an extension of time to complete term work or to write a term test, your instructor jointly with the Divisional Chair may give you an extension for up to one week, after the last date to submit term work.

3. If you need more than a week's extension, you must submit a formal petition (see B below). If your petition is granted, you will be given a deadline by which to complete the work.

B. Final examinations

1. If illness or other extraneous circumstances prevent you from writing a final examination, you may request special consideration by means of a petition (see B below). This must be submitted as soon as possible and no later than the last day of the examination period.

2. If you are affected by illness or other circumstances which do not actually prevent you from writing an examination, you are required to attempt it. If, after receiving your final grade, you feel that your performance on the exam was adversely affected, you may petition to rewrite it (see B below).

3. If you are permitted to rewrite, the improved grade will need, whether higher or lower.

4. Deferred examinations for all University of Toronto at Scarborough courses, including those which are being rewritten, are held as follows:
   a. exams deferred from April and May are held in the August examination period
   b. exams deferred from June and August are held in the December examination period
   c. exams deferred from December are held at the end of the winter examination period

5. You must pay a fee to any University of Toronto at Scarborough deferred examination.

6. If you are given permission to write a deferred exam, or to rewrite an exam, you must indicate your intention to write or pay the required fee by the deadline set. Failure to respond or to pay the fee will result in loss of privilege to sit the examination.

7. You are given only one opportunity to rewrite any exam. This is the last expected to be available for the entire deferred examination period.
Special Consideration, Petitions and Appeals

8. If you miss a deferred exam, you may petition for an extension of time to write it. Normally, no other form of special consideration will be granted. Permission will be granted only under exceptional circumstances and when supported by strong documentation. A petition for an extension of time to sit a deferred examination will be considered only once.

9. Under only exceptional circumstances, students who will unavoidably be outside the Toronto area during the special examination period may petition for permission to write at an outside course. Such a petition must detail the reasons for the request and must be submitted at least three weeks prior to the beginning of the deferred examination period. Late requests cannot be accommodated.

A non-refundable fee of $30.00 for each examination to be written at an outside center is charged in addition to the regular deferred examination fee of $70.00. Students who are given permission to write at an outside center are also responsible for all costs of travel, living quarters and other related expenses. Since these may exceed $100.00 per examination, students are advised to assess the total costs before petitioning.

C. Marks and Grades

1. Checking Marks: Term Work
   If you think that your mark on a term test or assignment has been calculated incorrectly, ask your instructor to check the mark. Do this as soon as possible, and certainly before the end of term. If you wish to appeal an instructor’s decision about the grading of term work, speak with or write to the Chair of the Division offering the course.

2. Copies of final examinations
   Within ninety days of the relevant examination period you may obtain a photocopy of your final exam from the Registrar’s Office. After that date, examination papers are not available. A non-refundable fee is charged.

3. Clerical Check of Marks: Final Examinations
   If you think there is an error in the calculation of your final grade, within ninety days of the relevant examination period you may request a recount of the examination through the Registrar’s Office on a form provided for this purpose. The Division will not recalculate the final examination, nor re-mark term work. (It is not necessary to purchase a copy of your exam to make this request.) A fee is charged. If an error is discovered which results in a change of the final letter grade, your fee will be refunded. Wherever a grade is changed, the amended grade will stand whether it is higher or lower. Please note that before submitting any failing grade, instructors are required to re-read the final exam and recalculate the sum of term and final marks.

4. Appealing Assigned Grades
   If you wish to appeal a mark on term work returned to you only after the end of term and after the instructor has submitted grades for the course, you may submit a formal petition (See §D Below). This must be done within ninety days of the relevant examination period.

   If, after obtaining a copy of a final examination, you wish to request that it be reread, you may submit a petition for re-reading (See §D Below). You must do this within ninety days of the relevant examination period.

   When authorized, the rereading is arranged by the Division offering the course, which also authorizes and facilitates any change in grade. Normally the rereading is done by the course instructor, unless you make a convincing argument that the work be reviewed by another faculty member. Claims of prejudice must be supported in detail and whenever possible confirmed by a third party. In no instance will a grade be changed, but the amended grade will stand whether it is higher or lower.

5. Violations of the Grading Practices Policy
   (a) If you think an instructor has violated the Grading Practices Policy, discuss your complaint with the instructor. If the violation relates to the announced schedule of assignments or the marking scheme, you must do this no later than the fourth week of classes. If it relates to changes in or divergence from the announced grading scheme, you must do this before the end of the final examination period.

   (b) If this process does not result in a satisfactory solution, you may appeal the instructor’s decision to the Chair of the Division offering the course. If this appeal does not resolve the problem, you may appeal to the Principal of the College.

   (c) If you wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds of a violation of the Graduation Practices Policy, you must submit a formal petition (See §D Below). If your petition is granted because a violation of the Policy has occurred, no record of your registration in the course will appear on your transcript.

D. Petitions

A petition is a formal request that an exception to an academic regulation be made in your case. You must have good reason to make such a request, and you must show that you have acted responsibly and with good judgment in observing the academic regulations to the extent possible. Please note that some academic matters cannot be petitioned, although sometimes these may be resolved with an instructor or a Division offering a course.

Where a petition is justified, it must be decided by the appropriate deadline (See §E Below). If a petition has been filed by the deadline, it will not be considered if documentation is not provided within three weeks of its submission.

1. To enter a petition you must obtain from the Registrar’s Office a petition form. Follow the instructions on the form and fill it out completely, including the Petitioner’s Checklist.

2. If you think the issue is simple and the solution straightforward, you may not need advice or assistance with your petition. However, if there are more complex academic issues involved you may want to speak with your instructor, program supervisor or discipline representative. If serious personal problems are involved, you should try to meet with an academic advisor in the Academic Career and Learning Support Centre or a personal counsellor in the Health and Wellness Centre. Do not let this recommendation interfere with your submitting your petition by the deadline.

3. Submit whatever documentation is necessary to support your request.
   (a) Medical certificates must show:
      • that you were examined at the time of illness
      • the degree of disability involved
      • the duration of the disability
      • the practitioner’s professional opinion as to whether you should receive special consideration on medical grounds.

   You are urged to use the University of Toronto Student Medical Certificate for this purpose. A copy of the Student Medical Certificate may be downloaded from http://www.utoronto.ca/health/medcert.pdf

   (b) Statements from social workers, lawyers, clergy and other professionals must:
      • state the nature and extent of the problem
      • give his or her professional opinion as to whether you should receive special consideration on the grounds documented in your petition.

4. Petitions for re-reading of final examinations and term work returned to you after the end of term and after the instructor has submitted grades for the course will be granted only if you:
   • articulate clear grounds for reconsideration, addressing the substance of an answer in relation to the mark given it or otherwise identifying the nature of the alleged misphilization;
   • show that the alleged misphilization affects a substantial nature: an objective answer, that a correct answering has been counted as incorrect, or in a subjective or essay answer, that the response has been under-evaluated substantially.

5. You will be notified in writing of the decision on your petition. The petitions office attempts to respond as quickly as possible, normally within three weeks of submission. Please do not inquire about the progress of your petition within that period, complex cases and petitions submitted during very busy periods may take longer.
Code of behaviour on academic matters

A. Preamble

The concern of the Code of Behaviour on Academic Matters is with the responsibilities of all parties to the integrity of the teaching and learning relationship. Honesty and fairness must inform this relationship, whose basis remains one of mutual respect for the aims of education and for those ethical principles which must characterize the pursuit and transmission of knowledge in the University. What distinguishes the University from other centers of research is the central place which the relationship between teaching and learning holds. It is by virtue of this relationship that the University fulfills an essential part of its traditional mandate from society, and, indeed, from history: to be an expression of, and by so doing to encourage, a habit of mind which is discriminating at the same time it remains curious, which is at once estimable and audacious, valuing opencess, honesty and courtesy before any private interest. This mandate is more than a mere pious hope. It represents a condition necessary for free enquiry, which is the University’s life blood. Its fulfillment depends upon the well being of that relationship whose parties define one another’s roles as teacher and student, based upon differences in expertise, knowledge and experience, though burdened by respect, by a common passion for truth and by mutual responsibility to those principles and ideals that continue to characterize the University. This Code is concerned, then, with the responsibilities of faculty members and students, not as they belong to administrative or professional or social groups, but as they co-operate in all phases of the teaching and learning relationship.

Such co-operation is threatened when teacher or student (or both) have lost respect for the other, and for others involved in learning—in favor of self-interest. Such a breach threatens the whole purpose of the University. For teaching and learning to be successful, both the teacher and the student must respect the learning experience of the other. This Code of Behaviour is designed to ensure that academic achievement is not obscured or undermined by cheating or plagiarism, as the harm that results from the highest standards of fairness and honesty, and that malice or carelessness which could result in a host of disruptive incidents is not allowed to detract from the educational process.

These are areas in which teacher and student necessarily share a common interest as well as common responsibilities.

B. Offences

The University and its members have a responsibility to ensure that a climate which might encourage, or conditions which might enable, cheating, misrepresentation or unfairness is not tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disguise their omissions by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

Wherever in this Code an offence is described as depending on “knowing”, the offence shall likewise be deemed to have been committed if the person might reasonably have known.

B.1. It shall be an offence for a student knowingly

(a) to forge or in any other way alter or falsify any document or evidence required by the University, or to circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;

(b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;

(c) to impersonate another person, or to have another person impersonate, in any academic examination, or term test or in connection with any other form of academic work;

(d) to represent as his own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism; "plagiarism". The present sense of plagiarism is contained in the original (1521) meaning in English; "the wrongful appropriation and publication as one's own, of the ideas or the expression of the ideas of another." This most common, and frequently
C. Procedures in cases involving students

At both the divisional level and the level of the University Tribunal, the procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

C.1(a) Divisional Procedures

NOTE: Where a student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and Etobicoke Colleges, the college is deemed to be the faculty.

1. No hearing within the meaning of Section 2 of the Student Powers Procedure Act is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.1 (a), and such discussions, meetings and determinations are not proceedings of the Tribunal.

2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to discuss the matter. Nothing the student says in such a discussion may be used or receivable in evidence against the student.

3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor, in which case he or she may again proceed in accordance with subsection 2.

4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean [Associate Dean]. See also Section C.1 (b) 1.

5. When the dean [Associate Dean] or the department chair, as the case may be, has been so informed, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean [Associate Dean] being informed, the chair of the department and the instructor shall be invited by the dean [Associate Dean] to be present at the meeting with the student. The dean [Associate Dean] shall conduct the interview.

6. Before proceeding with the meeting, the dean [Associate Dean] shall inform the student that he or she is entitled to seek advice, or be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or receivable in evidence against the student in the hearing of any charge with respect to the alleged offence in question. The dean [Associate Dean] shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.1 (b), and that the dean [Associate Dean] is not obliged to impose a sanction but may instead require that the Provost lay a charge against the student. Where such advice and warnings have been given, the statements and admissions, if any, made in such a meeting may be used or receivable in evidence against the student in any such hearing.

7. If the dean [Associate Dean], on the advice of the department chair or of the department chair, or on the advice of the instructor, reasonably believes that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation. If the student was prevented from withdrawing from the course by the withdrawal deadline, he or she shall be allowed to do so.

Thereafter, the student shall not be introduced into evidence at a Tribunal hearing for another offence.
8. If the student admits the alleged offence, the dean [Associate Dean] of the department chair may either impose the sanctions that he or she considers appropriate under Section C.I. (b) or refer the matter to the dean [Associate Dean] or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean [Associate Dean] if the dean [Associate Dean] imposes a sanction.

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean [Associate Dean], as the case may be, the student may refer the matter to the dean [Associate Dean] or Provost, as the case may be, for reconsideration.

10. If the student does not admit the alleged offence, the dean [Associate Dean] may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Tribal Division of the Tribunal.

11. Normally, decinal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is to be any objection to an alleged defect, failure or irregularity.

12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course as the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean [Associate Dean] to bar him or her from a facility. When at any time after an accusation has been reported to the dean [Associate Dean], he or she may cause a notation to be recorded on the student's academic record and transcript, until the final disposition of the accusation, to indicate that the standing in a course and/or the student's academic status is under review. A student upon whom a sanction has been imposed by the dean [Associate Dean] or the department chair under Section C.I. (b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

13. A record of cases disposed of under Section C.I. (a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean [Associate Dean] in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean [Associate Dean] to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean [Associate Dean] may contact the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.I. above.

14. Where a proctor or invigilator, who is a Faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall inform the student's dean [Associate Dean] or department chair, as the case may be, who shall proceed as if he or she were the complainant, by analogy to the other provisions of this section.

15. In the case of alleged offences not covered by the above procedures and not involving the submission of academic work, such as those concerning forgery or stealing, and in cases involving consultation, review, represcription of a degree, diploma or certificate, the procedures set forth in Section C.I. (b) shall be applied to the other procedures set out in this section.

C.I.(b) Tribunal Sanctions

1. In an assignment worth 10 percent or less of the final grade, the assignment must deal with the matter if:
(ii) the student admits guilt; and
(iii) the assignment of a penalty is intended to reflect a mark of zero for the piece of work.

2. One or more of the following sanctions may be imposed by the dean [Associate Dean] where a student admits to the commission of an alleged offence:
(a) an oral and/or written reprimand;
(b) an oral and/or written reprimand and, with the permission of the instructor, the re-submission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
(c) assignment of a grade of zero or failure for the piece of academic work in respect of which the offence was committed;
(d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
(e) denial of privileges to use any facility of the University, including library and computer facilities;
(f) a monetary fine to cover the costs of replacing damaged property or property damaged in respect of which the offence was committed;
(g) assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
(h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.

3. The dean [Associate Dean] shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero or failure for a course or courses shall normally be recorded for a period of five years.

4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent to the information in the Academic Board and attached to the Code as Appendix "C."

C.II.(b) Tribunal Sanctions

1. One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:
(a) an oral and/or written reprimand;
(b) an oral and/or written reprimand and, with the permission of the instructor, the re-submission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
(c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
(d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
(e) denial of privileges to use any facility of the University, including library and computer facilities;
(f) a monetary fine to cover the costs of replacing damaged property or property damaged in respect of which the offence was committed;
(g) assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
(h) suspension from attendance in a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.

1. If a student admits the alleged offence, the dean [Associate Dean] or the department chair may either impose the sanctions that he or she considers appropriate under Section C.I. (b) or refer the matter to the dean [Associate Dean] or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean [Associate Dean] if the dean [Associate Dean] imposes a sanction.

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean [Associate Dean], as the case may be, the student may refer the matter to the dean [Associate Dean] or Provost, as the case may be, for reconsideration.

10. If the student does not admit the alleged offence, the dean [Associate Dean] may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Tribal Division of the Tribunal.

11. Normally, decinal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this Section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is to be any objection to an alleged defect, failure or irregularity.

12. No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course as the time of the alleged offence until the final disposition of the accusation. However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean [Associate Dean] to bar him or her from a facility. When at any time after an accusation has been reported to the dean [Associate Dean], he or she may cause a notation to be recorded on the student's academic record and transcript, until the final disposition of the accusation, to indicate that the standing in a course and/or the student's academic status is under review. A student upon whom a sanction has been imposed by the dean [Associate Dean] or the department chair under Section C.I. (b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.

13. A record of cases disposed of under Section C.I. (a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean [Associate Dean] in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean [Associate Dean] to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean [Associate Dean] may contact the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.I. above.

14. Where a proctor or invigilator, who is a Faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall inform the student's dean [Associate Dean] or department chair, as the case may be, who shall proceed as if he or she were the complainant, by analogy to the other provisions of this section.

15. In the case of alleged offences not covered by the above procedures and not involving the submission of academic work, such as those concerning forgery or stealing, and in cases involving consultation, review, represcription of a degree, diploma or certificate, the procedures set forth in Section C.I. (b) shall be applied to the other procedures set out in this section.
Code of Student Conduct

(i) recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be denied any further registration at the University in any program, and his or her academic record and transcript shall record this sanction permanently.

Where a student has not completed a course or course in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If recommendation for expulsion is not adopted, the Governing Council shall have the power to impose such lesser penalty as it sees fit.

(ii) recommendation to the Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or certificates obtained by any graduate; or

(iii) cancellation of academic standing or academic credits obtained by any former student who, while enrolled, committed any offence which, if detected before the granting of the degree, diploma, certificate, standing or credits would, in the judgment of the Tribunal, have resulted in a conviction and the application of a sanction sufficiently severe that the degree, diploma, certificate, standing, credits would not have been granted.

2. The hearing panel shall have the power to order that any sanction imposed by the Tribunal be recorded on the student's academic record and may impose, at its discretion, any length of time as the panel considers appropriate.

3. The Tribunal may, if it considers it appropriate, report any case to the Provost who may publish a notice of the decision of the Tribunal and the sanction or sanctions imposed to the University senate, with the name of the student withheld.

NOTE: The University of Toronto at Scarborough has a policy on the use of calculators in tests and examinations. Students should consult with instructors about whether the use of calculators is permissible in their course and if so which models are approved. The use of an unauthorized calculator may be treated as an academic offence.

Code of Student Conduct

(NOTE: A special committee of the University Affairs Board was established in January 2001 to review some aspects of the Code.)

A. Preface

1. The University of Toronto is a large community of teaching staff, administrative staff and students, involved in teaching, research, learning and other activities. Student members of the University are adherents to a division of the University for the period of their registration in the academic program to which they have been admitted and as such assume the responsibilities that such registration entails.

2. As an academic community, the University governs the activities of its members by standards such as those contained in the Code of Behaviour on Academic Matters, which provides definitions of offenses that may be committed by student members and which are deemed to affect the academic integrity of the University's activities.

3. As a community, University sponsors, encourages or tolerates many non-academic activities of its members, both on its campuses and away from them. These activities, although generally separate from the defined requirements of students' academic programs, are valuable and important part of the life of the University and of its students.

4. The University does not stand in loco parentis to its student members, but it has a general responsibility for the moral and social behavior of its students, as if they were its wards. In the exercise of its disciplinary authority and responsibility, the University treats students as free to organize their own personal lives, behavior and associations subject only to the laws and University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and safe enjoyment of University housing by residents and neighbors, or the freedom of members of the University to participate reasonably in the programs of the University and in activities as are on the University's premises. Strict regulation of such activities by the University of Toronto is otherwise neither necessary nor appropriate.

5. University members are not, as such, immune from the criminal and civil laws of the wider political units to which they belong. Provisions for non-academic disciplinary actions should not attempt to shield students from their civic responsibilities nor add unnecessarily to those responsibilities. Conduct that constitutes a breach of the Criminal Code or other statute, or that would give rise to a civil claim or action, should ordinarily be dealt with by the appropriate criminal or civil court. In cases, however, in which criminal or civil proceedings have not been taken or would not adequately protect the University's interests and responsibilities as defined below, proceedings may be brought under a discipline code of the University, but only in cases where such internal proceedings are appropriate in the circumstances.

6. The University may define standards of student behavior and make provisions for student discipline with respect to conduct that jeopardizes the good order and proper functioning of the academic and non-academic programs and activities of the University or its divisions, that endangers the health, safety, rights or property of its members or others, or that adversely affects the property of the University or its students, or is otherwise related to such conduct as is not, for the University's disciplinary purposes, adequately regulated by civil or criminal law.

7. Nothing in this Code shall be construed to prohibit peaceful assembly, demonstrations, lawful petitioning, or to inhibit freedom of speech as defined in the University.

8. In this Code, the word "premises" includes lands, buildings and grounds.

9. In this Code, "student" means a member of the University

i) engaged in academic work which leads to the recording and/or issuance of an academic credential by the University;

ii) registered in any academic course which entitles the member to the use of a University library, library materials, library resources, computer facility or data set; and/or

iii) who is a post-doctoral fellow.

10. In the following, the words "University of Toronto" refer to the University of Toronto and include any institutions federated or affiliated with, where such inclusion has been agreed upon by the University and the federated or affiliated institution, with respect to the premises, facilities, equipment, services, activities, students and other members of the federated or affiliated institutions.

NOTE: The University of Toronto has agreed that, when the premises, facilities, equipment, services or activities of the University of Toronto are referred to in this Code, the premises, facilities, equipment, services and activities of the University of St. Michael's College, Trinity College and Victoria University are included.

11. In this Code, where an offence is described as depending on "knowing", the offence shall be committed if the person ought reasonably to have known to have done or failed to do that which is prohibited or required.

12. This Code is concerned with conduct that the University considers unacceptable. In the case of student members of the University, the procedures and sanctions described herein shall apply. In the case of other members of the University, such conduct is to be dealt with in accordance with the established policies, procedures and agreements that apply to the appropriate conditions.

B. Offences

The following offences constitute conduct that shall be deemed to be an offence under this Code, when committed by a student of the University of Toronto, provided that such conduct

i) has not been dealt with as a failure to meet the agreed minimal conduct as required by a college, faculty or school, and
1. Offences against persons

a) No person shall assault another person or threaten any other person with actual assault.

b) No person shall assault another person, threaten any other person with bodily harm, or knowingly cause any other person to fear bodily harm.

c) No person shall knowingly create a condition that unreasonably endangers the health or safety of other persons.

d) No person shall threaten any other person with damage to such person's property, or knowingly cause any other person to fear damage to her or his property.

e) No person shall engage in a course of vexatious conduct:
   - that is directed at one or more specific individuals, and
   - that is based on the race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, age, mental or physical disability, marital status, family status, sexual orientation, gender identity or expression, or creed, and
   - that is known to be unwelcome, or
   - that exceeds the bounds of freedom of expression or academic freedom as these are understood in University policies and accepted practices, including but not limited to, those explicitly adopted.

NOTE: Terms in this section are to be understood as they are defined or used in the Ontario Human Rights Code.

f) No person shall, by engaging in the conduct described in subsection (e), below:
   - interfere with or hinder the right or privilege of any person to engage in an activity of the University, or
   - cause another person to fear for their safety or the safety of another person known to them while on the premises of the University or in the course of activities sponsored by the University of Toronto.
   - cause another person to fear for their safety or the safety of another person known to them while on the premises of the University of Toronto or in the course of activities sponsored by the University of Toronto or by any of its divisions.

ii) The conduct mentioned in subsection (f) consists of:
   a) repeatedly following from place to place the other person or anyone known to them;
   b) repeatedly and persistently communicating with, either directly or indirectly, the other person or anyone known to them;
   c) repeatedly and persistently watching the dwelling-house, or place or any person of the University of Toronto, or anyone known to them, residing, staying, attending, or business or happens to be; or
   d) engaging in threatening conduct directed at the other person or any member of the family, friends or colleagues of the other person.

2. Disruption

No person shall cause by action, threat or otherwise, a disruption that a reasonable person knows or reasonably should know that the disruption:

a) interferes with or hinders the right or privilege of any person to engage in an activity of the University, or

b) is intended or calculated or capable of resulting in a disruption that a reasonable person knows or reasonably should know that the disruption:

For example, peaceful picketing or other activity outside a class or meeting that does not substantially interfere with the teaching, learning or research, or does not substantially interferes with access to or use of the University, or

3. Offences involving property

a) No person shall knowingly take, destroy or damage premises of the University of Toronto.

b) No person shall knowingly sell, destroy or damage any physical property that is not her or his own.

4. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto.

5. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto.

6. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto.

7. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto.

8. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto.

9. Unauthorized entry or possession

No person shall, contrary to the expressed instructions of a person or persons authorized to give such instructions, or with intent to damage or destroy the premises of the University of Toronto or damage or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.

10. Unauthorized entry or possession

No person shall, contrary to the expressed instructions of a person or persons authorized to give such instructions, or with intent to:

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D. Sanctions

The following sanctions or combinations of them may be imposed upon students found to have committed an offence under this Code.

In addition, students found to have committed an offence may be placed on conduct probation for a period not to exceed one year, with the provision that one or more of the following sanctions will be applied if the conduct probation is violated.

1. Formal written reprimand
2. Order for restitution, rectification or the payment of damages
3. A fine or bond for good behaviour not to exceed $100
4. Requirements of public service work not to exceed 20 hours
5. Denial of access to specified services, activities or facilities of the University for a period of up to one year

The following two sanctions, which would directly affect a student's registration in a program, may be imposed only if it has been determined that the offence committed is of such a serious nature that the student's continued registration threatens the academic function of the University or of any of its divisions or the ability of other students to continue their programs of study.

6. Suspension from registration in any course or program of a division or divisions for a period of up to one year
7. Recommendation for expulsion from the University

Other Codes

Some parts of the University, such as the Library and the Computer Centre, have developed codes of their own. It must be clear in what respects precisely the Code of Behaviour for Academic Matters and the Code of Student Conduct apply in their areas. Students should be aware of the existence of these codes. They are equally bound by them.

Telephone Directory

CSGR (Radio Station) 416-287-7051
Disability-Accessibility Services 416-287-7560
TTV 416-287-7533
Financial Services Dept. 416-978-3142
Health & Wellness Centre 416-287-7565
High School Liaison (Tuesdays) 416-287-7563
Humanities Division Chair 416-287-7117
Associate Dean 416-287-7112
Secretary to the Chair 416-287-7119
Divisional Secretary 416-978-2594
InStF Student Centre Library 416-287-7366
Inquiries, Circulation Desk 416-287-7482
Reference Desk 416-287-7481
Life Sciences Division Chair 416-287-7397
Biological Sciences, Neuroscience, Psychology Management Division Chair 416-287-7341
Secretary 416-287-7331
Office of Advancement Chair 416-287-7119
Alumni Affairs 416-287-7590
Communications 416-287-7083
CRSF (Advancement & Alumni) 416-978-2190
Physical Education & Athletics Chair 416-287-7090
Colleges (Interdivisional) 416-287-7099
Physical Sciences Division Chair 416-287-7197
Secretary 416-287-7195
Physical Plant Services 416-287-7576
Parking Inquiries 416-287-7576
Prinicipal & Dean 416-287-7025
Employment/Liaison 416-287-7561
Registrar's Student Services 416-287-7071
Registration, Graduation 416-287-7071
Automated Telephone Course Registration Service 416-872-8058
Admissional Scholarships & Awards 416-287-7599
Registrar’s Fax Number 416-287-7525
Registrar's Centre 416-287-7541
Social Sciences Division Chair 416-287-7287
Secretary 416-287-7286
Students, Affairs 416-287-7674
Student Housing & Res. Life 416-287-7365
Student Council 416-287-7072
Summer Student Campus (SCSC) 416-287-7047
T.T. Alpine 416-287-7516
The Underground 416-287-7074
University Information Centre (at Scarborough Campus) 416-287-7026
Writing Centre 416-287-7562

Telephone Directory 253
<table>
<thead>
<tr>
<th>Calendar</th>
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**Notes:**
- Calendar for 2001 and 2002.
- Each month is represented with a 7-day week.
- Dates are listed from Sunday to Saturday.
- Special days and events are not marked in the calendar.
1265 Military Trail
Scarborough, Ontario
Canada M1C 1A4
www.scar.utoronto.ca